

## Message from the Director

This edition of the NISTe-News being the last issue of 2006 brings back a few memories of the year gone by. We have had many achievements to our credit this year:



- Opening of the MBA course in the Institute with the first batch of 60 students
- Direct intake of highly ranked AIEEE students to B.Tech which has made NIST a truly all India Institute with students from 13 states
- Opening of the first Campus Boys Hostel with 300 intake (enhanced to 500 from next year)
- Opening of the semi-olympic sized Swimming Pool in the campus
- CET counseling of 20000 students by NTCS Team
- Grant of Rs. 1.00 Crore by DST to the Institute for research purposes
- Establishment of Entrepreneurship Development Cell in the Institute with a grant of approximately Rs.50 Lacs in 5 years by Department of Science & Technology (DST)
- Outstanding Success of our students in the *Infosys Campus Connect Program*
- A record Placement of the 2006 and 2007 batches
- Finally the visit of Microsoft to NIST Campus for Placement with a salary of Rs. 8.5 Lacs p.a.

There are many other salient achievements in the year gone by such as holding of seminars on Nanotechnology, Bioinformatics, Scientific Opportunities in R & D, ISTE *Sankalp* and Conferences by Orissa Mathematical Society, Orissa Chemical Society, etc. The Institute also received its first grant for product development under TePP from Department of Science & Technology, New Delhi.

The happiest moment for me in 2006 was when Dr. Ajit K Panda and Dr. Amalendu Patnaik brought me the letter from the Department of Science & Technology, New Delhi, awarding NIST a Rupees of One Crore Grant for the establishment of two state-of-the-art laboratories in VLSI and Advanced Microwave Communications. This truly signifies our coming of age in the field of research which so far was restricted to publications of papers in top journals. DST has clearly identified our Institute as a technology demonstrator for the entire eastern India.

The tremendous success of our students in the Infosys Campus Connect Program where we are ranked No. 2 in the all India scale with 16 of our students successful in the finals (the first being M S Ramaiah Institute of Technology, Bangalore, with 22 students). My congratulations to the students of 2002-2006 batch and to the Campus Connect faculty for an outstanding job done. May the cup of happiness overflow in the year 2007. Happy New Year.

**December 15, 2006**

**Sangram Mudali**

## Message from the Editor

In the National Workshop on Industry Institute Interaction (NWIII) held recently at NIT, Rourkela, Prof S K Sarangi, the Director of NIT, Rourkela gave us (participants) an important information that the best students of NIT Rourkela are not opting for IT jobs. Immediately after returning back from that workshop I received a writeup from our Alumni (2001-2005 batch), Ms. Padmaleena Kabita who is presently working at Infosys, Bhubaneswar. I have included her article named "*It's all about IT*" in this issue. These two feedbacks in one month from two important persons (one is preparing people for IT jobs whereas the other one is doing IT job) are motivating us to ReTHINK about opting for IT jobs. Probably the issue is more serious for the good students because they are more capable of doing many better things. The long list of NIST students at TCS, Infosys, Satyam, Mindtree, CTS, etc., is still making us happy but at TIFR, BARC, DRDO, IITs, IISc, TI, Cadence, IBM research Lab, Bell Labs, ISRO and like others where IITians are still dominating, the list of NIST students is very narrow ( $\approx 0$ ) which is equally making us unhappy. The problem can not be solved by Teachers or Placement Dept., the solution is in Students and in their Dreams. Let this new year 2007 bring that dream in you.

Lastly, I would like to convey my heartiest wishes on the eve of **Christmas** and the **New Year 2007**.

**December 15, 2006**

**Partha S Mallick**

**Placement of the Month**  
**(From November 15, 2006 – December 15, 2006)**

<b>B.Tech(2003-2007 batch)</b>	<b>Name of the Company</b>
1. Rakesh Parida CSE	Microsoft, Hyderabad
2. Mrutyunjaya Dash CSE	Microsoft, Hyderabad
3. Smita Samantaray IT	Microsoft, Hyderabad

***Inspiring letters.....***

***Maj Gen PK Saighal***  
*(Retd)*

***38 Babar Road***  
*New Delhi-110001*  
*18 Dec, 2006*

*To, Mr. Sangram Mudali*  
*Director, National Institute of Science and Technology*

*Dear Sangram,*

It was an immense pleasure meeting you and Geetika after nearly five years. Both of you looked as radiant and fit as ever.

It was a sheer joy seeing the magnitude of your effort. You have a tremendous sense of vision and a desire to excel. The institute has come up in an un-believable manner. Given your favour and passion, it should already be the most highly rated institute in Orissa. A decade later it should rub shoulders with the very best in the country.

I enjoyed speaking to your students. They were supremely attentive, highly disciplined and cheerful, I came away very satisfied.

Can I request you to send me some photographs that were taken during the workshop? A small feedback too could be included.

I pen off by wishing you, Geetika, your children, the faculty and students of NIST a very happy and a prosperous New Year. May God support all your endeavours. With warm regards,

Yours Sincerely,  
(Gen P.K. Saighal)

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***NO. SIET/2006/1618***

***December 01, 2006***

*To, Shri Sangram Mudali*  
*Director, National Institute of Science and Technology (NIST)*

I am extremely happy to learn that your institution completed 10 (ten) glorious years of its existence on September 18, 2006. On behalf of our Institution and on my own behalf I extend to you our congratulations and I wish continued prosperity of your beautiful institute.

Thank you very much for sending us copies of your monthly news letter NIST e-News and your Quarterly Magazine NISTian.

Yours truly,  
(BINOD DASH)

CHAIRMAN & MANAGING TRUSTEE

Sinergy Institute of Engineering and Technology, Dhenkanal 759 001, Orissa

## News Corner

### **NIST Hosts OCS Conference**

The 20<sup>th</sup> Annual Conference of Orissa Chemical Society(OCS) was held at National Institute of Science & Technology on 16<sup>th</sup> and 17<sup>th</sup> of December, 2006. This is the second time that this prestigious conference is being held at NIST. More than 120 delegates from all over India including teachers, researchers, scientists had registered for the conference and the symposium on “*Molecular Electronics*”. The conference was held in honor of Late Loknath Mishra (1892-1968), an esteemed Chemistry teacher of Ravenshaw College. The Chief Guest of the Inaugural function was Prof (Dr.) G.S. Samantray, renowned microbiologist of AIIMS, New Delhi. The renowned Chemistry teachers of the batch of 1961 were honored by their students and all delegates. More than 25 technical papers were presented in the Conference. Speakers emphasized upon the need to develop more research work and better laboratories in Orissa and the need to work in cross-disciplinary areas such as Environment Engineering, Nanotechnology, etc. The valedictory function of the Conference was presided over by the President of OCS, Dr C. R. Das and Secretary Dr. A. Samantaray with the Chief Guest being Dr. R.P.Das, ex-Director, RRL, Bhubaneswar. The Director of NIST congratulated the Local Organizing Committee headed by Dr. A. K Padhy for successful holding of the conference.

### **NIST wins Rs. 1 crore Research Grant**

In a first-of-its-kind among any private engineering college in the State of Orissa, the Department of Science & Technology, Government of India, has sanctioned a sum of Rs. 1.00 Crore to the National Institute of Science & Technology. The funds granted by the DST under the FIST program will be utilized for setting up ultra-modern laboratories in the area of VLSI Design & Testing and in Microwave Communications. The DST grant is the largest received by NIST whose previous grants totaled about Rs. 25 lacs in the last two years. The Director of

the Institute, Prof Sangram Mudali, attributed the success of the DST grant to the efforts of its faculty which includes 4 Boyscast scholars, 2 Fullbright scholars, 2 Young Scientists and 25 Post Graduate fellowships. He congratulated Dr. Ajit K Panda and Dr. Amalendu Patnaik who have won the DST grant. This grant is a fitting statement of the rapid development of the Institute especially when it is celebrating its *10 Glorious Years*. The new laboratories will be totally utilized for research by M.Tech students and scientists of Orissa. In the area of VLSI design, NIST is an acknowledged leader with more than 150 students graduating in VLSI in the summer courses. This research grant will also be useful for industry to carry out testing & prototype work at NIST.

### **Microsoft comes calling to NIST Campus**

The Seattle (US) based software giant, Microsoft, visited NIST campus on December 19<sup>th</sup> for recruitment of final year students. This was the first visit of Microsoft to NIST for placement purposes. Microsoft has visited only 3 top Institutes in Orissa and NIST is one of them. The team gave a Pre-Placement Talk and announced the salary package of Rs. 8.5 Lacs per annum which is the highest package offered so far. After a grueling written test and interview (in the style that Microsoft is so well known!) 3 students were selected for Microsoft. The students are Mr. Rakesh Parida, Mr. Mrutyunjaya Dash & Ms. Smita Samantaray. The excitement in the entire campus was palpable since Microsoft was given the Dream Company status by almost all the students. The Placement Director, Mrs Geetika Mudali, while thanking Microsoft for its tremendous faith in our Institute, asked the students of the 2004 batch to get prepared for the year ahead for such top companies of the world. She further added that it is an honor for NIST Placement team and its faculty, staff and students that NIST Placement track record has been exemplary. This achievement is all the more noteworthy since we are currently celebrating our 10 Glorious Years.

### **Infosys Campus Connect- NIST is on Top**

It is inspiring news from the Infosys Campus Connect that 16 students of NIST were selected in the Campus Connect finals in Bangalore. It is most heartening to know that we have the SECOND HIGHEST number of students in India. The first with 22 students is M. S. Ramaiah College of Engineering, Bangalore - which is one of oldest Engineering colleges of India. The third College is CET, Bhubaneswar with 14 students. Infosys has really provided a fantastic benchmark to judge performance of students and faculty of engineering Colleges of India. We are proud of our Campus Connect Faculty. Superb performance! Looking to be the Number 1 in 2007.

### **Invited talk by NIST Director at NWIII**

Our Director **Professor Sangram Mudali**



was invited by the organizing committee of the National Workshop on Industry Institute Interaction (3I) (NWIII), NIT, Rourkela to deliver a invited lecture on 3I issues. Among the other speakers, Prof ON Mohanty, VC, BPUT, Prof S K Sadangi, Director, NIT, Rourkela, Prof Swapan Bhattacharya, Director, NIT, Durgapur, Dr Sanak Mishra, CEO, Mittal Steel, Dr R N Mathur, Chief Project Advisor, NPIU spoke on the importance of Industry Institute Interaction. Prof Sangram Mudali clearly explained the state of art technologies developed at NIST campus, NIST's effort for R&D, Entrepreneurship activities which was appreciated by the delegates and organizing committee members. NIST Director was also a member of the Panel discussion which was held on the 2<sup>nd</sup> day of the two days workshop from November 30, 2006 to December 1, 2006. In his discussion, he welcomed the industries to start technical institutes as is the case in Japan and Germany. Prof. Ganapati Panda, Head of ECE, TeQIP Cell, NIT, was the Chairman of the organizing committee.

### **NIST faculty at TTT Program**

NIST faculty **Mr Sudhir Panigrahi** and **Mr Jagannath Mohanty** attended the Train the Trainers program titled *Soft Skill TTT program* of Infosys campus connect program held at BBSR on Nov. 21 – Dec. 01, 2006.

### **1<sup>st</sup> prize won by NIST student**

**G Gayatri** of Final Year, CSE won the first prize for the best poster paper presentation at the International Symposium on Computational Biology & Bioinformatics



(ISBB2006) organized by Silicon Institute of Technology, Bhubaneswar. The topic of the poster is *Use of Artificial Neural Network for prediction of protein structure* The poster was appreciated by delegates, participants and speakers. Congratulations!

### **PPT Program for NIST Students**

This year the Pre-Placement Training program was conducted by TIME, Bhubaneswar and IMS, Bhubaneswar to the B.Tech 2004 batch, MCA-2005 batch and M.Tech-2006 batch students. IMS, Bhubaneswar gave special training to improve communication skills of the students. The program was coordinated by **Mr Sudhir Panigrahi**, the PPT Coordinator.

### **NISTians Success at IT Olympiad-'06**

NIST student **Ashish Ghosal** of 5<sup>th</sup> Semester, Computer Science and Engineering, B. Tech and **Govinda Kumar Sahu** of 5<sup>th</sup> Semester, MCA secured the 4<sup>th</sup> and 8<sup>th</sup> position respectively in IT Olympiad – 2006. Results are available at [www.oits.com](http://www.oits.com). Congratulations!

### **NIST faculty invited by EDII**

The Entrepreneurship Development Institute of India (EDII), Ahmedabad organized a two weeks training program at Puri, Orissa to develop the Faculty Members of different technical and non technical institutes in the



area of Entrepreneurship. EDI invited NIST faculty **Dr Partha S Mallick**, to deliver a talk on *Techno Entrepreneurship*. Participants of the training program were the faculty members of various Engineering and Management Institutes of Orissa, Punjab, Andhra Pradesh and West Bengal. Dr Mallick is one of the trained faculty members of EDII, Ahmedabad who is at present the Principal Investigator of a DST (Govt. of India) sponsored project under its Techno Entrepreneurship Promotion Programme to develop Electric Fencers.

### **ISTE/IEEE Seminar Series...**

**Dr Binayak Rath**, Professor of Economics, Department of Humanities, Social Science & Environmental Engineering Management, IIT, Kanpur delivered a talk on *Reformation Strategy for the Infrastructure Calls for Public Private Partnership (PPP)* at Room No – 306, Lecture Hall Complex on December 30, 2006. NIST Director Prof Sangram Mudali, faculty members and MBA students were present in the seminar.

**Dr Ravi P Reddy**, Deputy Director of NIST, delivered a talk on the motivational messages of the book *The Monk who Sold His Ferrari* on December 4, 2006 at NIST Auditorium. Many interested students and faculty members were present and appreciated the talk.

**Dr S Majhi** of IIT Chennai has delivered a talk on *Alternate Source of Energy*, at the Advanced Research Centre of NIST on December 15, 2006. M.Tech students and faculty members attended the seminar.

**Dr Salim Reza** of the University of Paderborn, Germany delivered a talk on “*Waveguide LASERs – Recent Trends*” on December 21, 2006 at Room No 406, Lecture Hall Complex. The talk was attended by faculty members, M.Tech and B.Tech final year students.

### **Workshop/Conference Attended**

NIST faculty **Dr Partha S Mallick** attended the 8<sup>th</sup> International Conference on Optoelectronics, Fiber Optics and Photonics (Photonics 2006) held at University of Hyderabad on December 13-16, 2006. **He presented his research paper titled “Electron Mobility in Blue LASER/LED materials”.**

NIST faculty **Mr Sidhartha BN, Mr R K Shial, Mr Debanand Kanhar, Ms. Jayasree Mohanty, Mr Aresh Tripathy and Mr Chandan Behera** attended the 9<sup>th</sup> International Conference on Information Technology (CIT 2006) held at Hotel Crown, Bhubaneswar on December 19-21, 2006.

The 9<sup>th</sup> International Conference on Information Technology (CIT 2006) invited NIST faculty **Dr Partha S Mallick** to Chair its various sessions. Dr Mallick attended the same on December 19<sup>th</sup>, 2006 at Hotel Crown, Bhubaneswar as Session Chair.

**Mr Siddhartha B.N. and Mr Sudhir Panigrahi** attended another workshop on December 8, 2006 at Bhubaneswar. The workshop was on *Catalysing Entrepreneurship in Orissa – IT and ITES sector* and was organized by OCAC, BBSR.

**Dr Partha S Mallick** attended the National Workshop on Industry – Institute Interaction (NWII) held at NIT, Rourkela on November 30 – December 01, 2006 organized by NIT, Rourkela.

NIST faculty **Mr M Suresh and Ms. Meryleen Mohapatra** attended the VLSI Workshop at Roland Institute of Technology, Berhampur held on December 1-4, 2006. NIST M.Tech students **Ms Jammula Soumya, Mr Mangesh Nagrale and Mr**

**Ch. S S Prakash** have also attended the workshop. The workshop was jointly organized by RIT, Berhampur and the VLSI Society of India (VSI).

NIST faculty **Mr Trilochan Panigrahi** attended the International Conference on Microwave, Antenna Propagation and Remote Sensing(ICMARS-2006) held at International Centre for Radio Science(ICRS), Jodhpur, Rajasthan. **He presented his research paper titled *Simulation of Electron beam focusing system for TWT's using FEM.***

NIST faculty **Ms Meryleen Mohapatra** and **Ms Balamati Chowdhury** attended the 5 days workshop at NIT, Rourkela on *Advanced Digital Signal Processing* from December 18-22, 2006. The workshop was organized by the Department of Electrical Engineering of NIT, Rourkela.

NIST faculty **Mr Prabhudutta Pradhan** attended the International Conference on Computers and Devices for Communication (CODEC 2006) held on December 18-20, 2006 at Hyatt Regency, Kolkata. **Mr Pradhan presented the research paper *Simulation and Characterization of a multifunction antenna.***

NIST faculty **Mr. Nihar Ranjan Sahu** attended a 6 days Workshop on Digital Signal Processing using MatLAB and SimuLINK on December 18-23, 2006 at NIT, Rourkela. The Workshop was organized by the Department of Electronics and Communication Engg., NIT, Rourkela.

#### **Workshop on Marketing Research**

Dr. Rabi Narayan Subudhi, Professor, VIT Business School, Vellore Institute of Technology, Vellore conducted a one day Workshop on *Marketing Research* at Lecture Hall Complex, NIST on November 28, 2006. The workshop was attended by MBA students, many staff and faculty members.

#### **Inauguration of Badminton Court at Campus Hostel**

NIST Director **Prof Sangram Mudali** inaugurated the badminton court of NIST Boys Hostel 1 at Campus on November 11, 2006. The Hostel Superintendent Mr G V Kiran Kumar coordinated the inaugural function. B.Tech Course Coordinator Dr



Arun K Padhy, M.Tech Course Coordinator Dr Partha S Mallick, MCA Course Coordinator Mr Sidhratha B N attended the function. The first match was between Hostel Student Team vs. Director's Team. The Director's Team (Prof Sangram Mudali and Mr Pallab Kar) won the match.

#### **NIST family Welcomes You....**

We welcome **Mr. Sudhansu Bhusan Mohapatra**, who joined NIST in November 2006. He is a BE in Mechanical Engineering and worked from 1993 to 1998 as a Manager at OCC Ltd, a Govt. of Orissa undertaking.



After that Mr Mohapatra worked as a Lecturer (Mechanical) in UCP Engineering School, Berhampur till joining at NIST. His research interest is in Automobile Engineering.

We welcome **Mr. Bhanu Prasad Behera**, who joined NIST in the Department of Management Sciences. He did his B.Tech from NIT, Rourkela and MBA from Utkal University, Orissa. He has 2 years of industry experience in an Indo-Norway Joint Venture Company *Safa Marines* and another 2 years experience in *Riken Instrumentation Ltd*, Chandigarh. His area of



interest is Organizational Behavior, Production and Operations Management.

We welcome **Ms. Manaswini Misra**, who joined in the Dept. of Electronics and Instrumentation Engg. She did her BE from GIET, Gunupur under Berhampur University & has 2 years of teaching experience at RIT, Berhampur.



## **Why One Must do M.Tech/PhD in Computer Science**

**Prof. Dheeraj Sanghi, Dept of Computer Science, IIT, Kanpur**

We at IIT Kanpur have been concerned that the interest in higher education (MTech and PhD) has been dwindling amongst the students of CSE and IT areas. Most of the students from good colleges get jobs while they are in their 6<sup>th</sup> or 7<sup>th</sup> semester. All the good students going into industry not only have an adverse impact on research output of the country, and availability of faculty for the academic institutions, but we strongly believe that it may not even be in their own self-interest to quit formal education after an undergraduate degree. The IT industry in India has matured, and as its growth rate starts coming down (now 28 percent), the gap between supply and demand for average technical skills will narrow. But the industry is poised to go up the value chain, and along with it, the demand for higher technical skills is rising faster than what academia can produce.

The number of seats in IT areas (both 4-year Bachelors programs and 3-year diploma programs or MCA) is already far higher than the number of jobs available in IT industry. There are more than one lakh graduates in IT who do not find jobs in IT industry every year. We still have shortage of manpower only because the quality of education in many cases is rather poor, and hence a large number of graduates are unemployable. But over the years, the number of graduates is increasing very fast, and considering the number of quality improvement programs that industry and government support in academic institutions, the employability will only improve. Hence, sooner or later the gap between the demand and supply of average technical skills will be bridged, ensuring that the salary growth rate comes to a more reasonable level.

But on the other hand, the number of MTech seats in the country is far less (two orders of magnitude less), and there does not seem to be any national movement to increase that number substantially in a short period. If one goes for higher education now, the chances are that s/he will enjoy exclusivity or a large gap between demand and supply of higher technical skills for more than a decade.

The situation in PhD is even worse. As a result the industry salaries for good PhDs have shot through the roof. Till recently, PhD program was equated with a job in academia, and many students did not want to commit to working in academia. Today, the situation has completely changed. Almost every big IT company has a research center in India, and they are hungry for PhDs. Salary wise, PhD has become the most lucrative degree of our times. We believe that the students today are taking a decision about their careers without adequate information, and many times based on what learn from their peers in the hostels. They have most likely not understood the trends in IT industry and how it will affect their job prospects and careers in times to come. Also, they have not quite understood what all factors should be taken into account in choosing a career. To counter this, we will like to hold seminars in all good colleges in the country about how Graduate Education (MTech and PhD) can be a smart career move even for those who could get fat paychecks at the end of their undergraduate education. (Of course, we will want all the smart guys and gals to do their MTech and PhD in our department. So it is not only the national interest that drives this program.) I have already traveled to a large number of good colleges across the country, giving talks on career planning and how in the changing industrial scenario, higher education has become essential for those who want to succeed in their careers. If you would like to invite me to your campus, please send me an email. Please include possible dates that you think you can host me. *You can send me email at: dheeraj@iitk.ac.in*

# Student's Corner

## The Two Days with Scientists and Researchers

Mukesh Kumar B. Tech, 3<sup>rd</sup> Year, CSE

It was a dream for me! I am talking about the 'International Symposium on Computational Biology



and Bioinformatics' organized by the Silicon Institute of Technology sponsored by the Govt. of India & Government of Orissa. The venue was at Swosti Plaza, Bhubaneswar. Around 40 scientists and researchers from all over the world gathered there. Some of the invited speakers are - David Sankoff, University of Ottawa, Canada, See-Kiong Ng, Institute of Infocom Research, Singapore, Gene Myers, Howard Hughes Medical Institute and UC, Berkeley, USA, Gad M Landau, University of Haifa, Israel, University, NY, USA, Ramesh Hariharan, Strand Life Sciences, Bangalore, India . Alberto Apostolico, Georgia Institute of

Technology, USA & University of Padova, Italy, Saugata Basu, Georgia Institute of Technology, USA .USN Murty, Biology Division, IICT Hyderabad. Being active members of 'Bioinformatics Club, NIST, the Coordinator Professor Suash Deb has given a golden opportunity to us. G. Gayatri (final year), Kausik Bhagat (3<sup>rd</sup> year) and myself got this opportunity. This was a 3 days program. The first day 15<sup>th</sup> December was full of excitement. The talks were mind blowing. At the 1<sup>st</sup> night in the guest house, my room mate was Professor Franco from De-Montreal University, Canada. He was really the brilliant mind and sarcastic person. Kausik and me pushed him to speak in Hindi on the next day on 16<sup>th</sup> December, people enjoyed his speech. "*pori me Jaganath, Balbhadra, Subhadra hay*", "*aap bhot sundaar hay*" and also starting before his talk he addressed the audience by saying "*Namskar*" with folded hands.



The talk was brilliant. The evening of the second day was full of discussions and arguments. Mr. Hariharan raised a question "Why Biotechnology is not able to show its glimpses in India? There were many such arguments and at last the Director of SIT, had to conclude it by saying "we can have more discussion during dinner also". In the next night, I had 3 hrs discussion with Professor Franco (Canada), I was asking a lot of questions whatever came to my mind and he has also asked questions to me related to Indian culture, places and NIST, he told me if your college will invite for this type of talk, I will come but not this year. 17<sup>th</sup> December, the last day of the symposium, we were talking with different people and busy collecting the visiting cards of some scientists. Gayatri didi was repeatedly saying this last year, finally her dream came true, she got the 1<sup>st</sup> prize in Poster Presentation. Our happiness became boundless. Gene Myers, Howard Hughes Medical Institute & UC Berkeley, USA was very impressed by *Gayatri didi*, he asked her to send a soft copy of her poster to him. I had also a chat with D. Roy Mohapatra, Assistant Professor in IISC, Bangalore and Chetan Mittal Chief of research group of Philips. After this session, closing ceremony was waiting for us to say good bye, however these three days discussion and new friendship with people from different part of the world was really unforgettable for us and I couldn't control myself but to share the two dream nights to all NISTians. So, believe in your dreams and do your best to achieve it.

## Inside a C-class

Yusuf Siraj, 1<sup>st</sup> Semester

**C Faculty:** What are you doing? Sleeping in the class??!!

**Student:** No sir, I just went into “stand-by”!

**C-Faculty:** OK, resume from stand-by & go and stand in the last row of this seat ‘array’.

**Student:** Sir, my system will “Hang” then!

**C-Faculty:** OK then start doing sit-ups in an infinite loop.

**Student:** Sir, then my system will “Crash”!!! Please let me sit sir.

**C-Faculty:** If you give correct output of my question then you’ll be allowed to sit else your “Scope” from this class will be aborted.

```
What will be the output of
void foobar(void)
{
    printf(“Hello World!”);
}
```

**Student:** (after thinking...) Sir, compiler dependent!!

**C-Faculty:** No!

**Student:** Garbage value?!!

**C-Faculty:** No!

**Student:** Implementation dependent!!!?

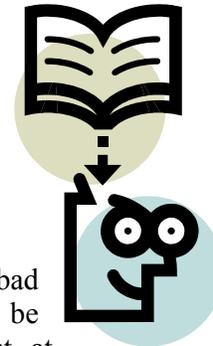
**C-Faculty:** No!

**Student:** Syntax error?

**C-Faculty:** No!

**Student:** Runtime or compile time error..!??

**C-Faculty:** No!!!! You are wrong. All these are “bad programming practices”. You must not be inside the scope of the class. Get out at



visible once!!!

**Student:** Thank you so much sir for declaring me as global because I have been called by some other function with an argument of type “birthday party”.

**C-Faculty:** OK. Go away. Your attendance will be assigned to “NULL”.

**Student:** NO O O O O O O O O O O ...!! I’m sorry sir.

**C-Faculty:** Unrecognized Command Verb!

## Future Technology

### Future Robots

A US scientist has developed a robot which can take X-ray pictures of sufferer’s orthopedic injuries as they move around. Complaints of orthopedic injuries are among the most common reasons people visit the doctor. Surgeons use static X-rays, MRI and CT scans to diagnose patients. They also use X-ray video. But current technologies provide only a tight view of a very limited range of motions in a controlled laboratory setting. But the robot designed by mechanical and aerospace engineer Scott Banks at the University of Florida shoots X-ray video of sufferers of orthopedic injuries as they walk, climb stairs, stand up from a seated position or pursue other normal activities – and may be even athletic ones like swinging a bat. X-rays, MRI and CT scan can be effective but they do not work well with injuries that manifest themselves when a joint is in motion, Banks said, the online edition of Newswire Wire reported. These include injuries to the patellar knee cap, and injuries of the shoulder. Surgeons sometimes have to operate to diagnose these and other injuries, which can lead to unnecessary injuries. After operations, surgeons have few tools beyond the patient’s experience to tell them whether a procedure worked as intended and whether it will forestall additional joint damage. But the robot, he says is a system that uses two robots with one robot used to shoot the X-ray video and another to hold the image sensor. It can shadow a person’s knee, or other joint with its hand as he or she moves. Although the robots will be attached to a fixed base, there is room for a person to move around normally within their reach.

## KALEIDOSCOPE on India reaching new sporting frontiers Rakesh Parida, 8<sup>th</sup> Semester, Member, Team NISTe-News

One can easily single out the number of instances when the Indian couch potato is at the edge of his seat. In the midst of all predictable programming on the television the ones which stand out as downright unpredictable are the Indian elections & the cricket matches they play. If you ask me to choose one of the two to watch, I would only glad to choose the former. Ask me why and I reply, at least in the Indian elections it's always an Indian who comes out triumphant at the end! Hence, it becomes Kaleidoscope's moral duty to address the subject which has hurt the ordinary Indian the most, India's sporting debacle!



The sport which is the talk of most Indian cities, towns & villages has to be cricket. Thus, it's not a surprise that this is the sport in which Indian teams are most proficient at disappointing. I have lost count of the number of tournaments that the Indian cricket team has lost recently. This being just before India plays South Africa in the test matches, well, success seems a distant dream. Nevertheless, one can say that the players have been enough criticized to now have Kaleidoscope at their throats. But, Kaleidoscope happened to chance upon some more follies of the team which haven't been earlier showcased. Has some scribe pointed out the atrocious attitude the players wear on and off the field. Let me point some facts out. Did any Indian player come out on media and apologize for their appalling performance? Instead they took off time to show their injured fingers on television. The other day the vice captain who is quite renowned for his 'I don't care if I fail attitude' was talking about how close the team was to winning some of the matches they lost. Yeah a margin of defeat by 100+ runs or by 8 wickets is indeed small. I know for sure though the BCCI is not responsible to the Indian public with its maverick attitude but Indian team should know that apart from the Indian Prime Minister they are only ones who are responsible to the Indian public. Oh well we may actually expecting too much from the team. Win some matches on home soil, openers should fire, survive menacing fast bowlers from SA, Windies, Australia..... Bangladesh, Kenya, play out the 50 overs and win at least the warm up matches!! Well even Achilles would be dumbfounded with that shocker of a list. Our team is only human even though they take away superhuman sums of money. Now come on, are we gonna go after their wallets now? Let's just give the boys some room. They barely make a crore each year! Oh well, now that we have *Dada* back in action we can be rest assured that the Indian team doesn't deprive us of melodramatic soap operas! Nevertheless like the eternal optimistic Indian Kaleidoscope is hopeful that the Indian test matches last the five whole days.

Till recently, the Indian sportspersons were sulking about the amount of attention that the Indian cricket team received. Theoretically once their turn of performing on the field starts, they should also crib about the amount of criticism that the cricket team gets because they are equally bad if not worse. You may think this is comical but each time a major sporting event comes up the expectations rise but in actuality it's yet another opportunity for the sportspersons to disgrace their nation. Please don't get me started on the hockey team. I have long forgotten that hockey was the national sport of the country. The others are not too far behind. While the weightlifters, not even winning when they are on dope, are courteous enough to get caught and get banned for life. For the track & field athletes 100m is too big a distance to last. The tennis players have some time before they get along with each other on court. The ones that delight me the most are the shooters. If one could actually spot a trend here, before each major occasion one of them is touted as the next big find. The so called next big find becomes the biggest failure at the games. Major Rajyavardhan Singh Rathore & Anjali Bhagwat may do well to take a cue from Indian movie stars who are quite adept at shooting in the wild. If it wasn't for *Kabaddi* Indian sportspersons were so good at maintaining clean sheets. The saying, *Winning is not everything* has indeed taken a new meaning in this country. This is a solemn request from Kaleidoscope, please don't disgrace us any further. One can always say that we were never a sporting nation anyways. We could always switch back to our politicians can't we? After all, you cannot defeat us in that game, can you? For all your comments & suggestions please write to [rakesh1919@hotmail.com](mailto:rakesh1919@hotmail.com)



*Disclaimer: The ideas and opinions aired above are the sole views of the author and in no way reflect those of the organizations associated with the author.*

## Alumni Page

From Mailbox

*To: Ravi Reddy <ravipreddy@yahoo.com> From: <manmath\_ray@indiatimes.com>  
Date: Sat, 16 Dec 2006 22:16:46 -0800 (PST) Subject: hi*

*Respected Sir,* Sorry for mailing after long time. I joined Mind Tree, Bangalore. Now, I am in Tokyo. I am working in for a client called Kyocera Mita. I am implementing JVM in Multi Functional Peripheral device (like a device having printer, scanner, xerox) to allow third party developers to download customize applications. Enjoying the work and life here. I hope all are fine there. I had visited NTCS, but I was not able to find you. Regards. **Manmath**

*Date: Wed, 6 Dec 2006 14:15:50 +0530*

*To: <enews@nist.edu>, <ravipreddy@yahoo.com>, smudali@hotmail.com  
Subject: A note of thanks!!!!*

*Dear Sir,* This is Anindita Bose of (2000-2004) Computer Science batch. Firstly I would like to congratulate the whole family of NIST on completion of 10 glorious years. At this moment I am working for Wipro Technologies for Cisco Project. Every time I visit [www.nist.edu](http://www.nist.edu), I just wonder to myself how better NIST has become. Be it anything, from lecture halls, octagon, hostel and the very new swimming pool. Honestly speaking, if given a chance to come back to college as a student, I guess I will be the first one in the long queue. I have often gone through the e-News letter. I still remember, when we were in college, it used to be a 12 page news-letter and now it's equivalent to a journal, with brilliant documents. And the sketches are amazing. On this occasion I would also like to thank Dr. Ravi. P. Reddy sir. If you are wondering why then here is the reason. In Wipro we have to appear for some annual examination for different languages. In February there is an exam schedule for C and C++ exam. The first and the only thought came to my mind was his book. And I wasn't shocked when my colleagues asked me to share his book. They not only found it great...some called it "Brilliant Book". It was a brilliant idea of making it available at our college website. I thank you all for making me feel proud being a NISTian Thanks and regards, **Anindita Bose**

*From: "Hotta, Danish" <dhotta2@ea.com> To: akpanda62@hotmail.com  
Subject: Remembering NIST Date: Mon, 20 Nov 2006 15:44:57 -0800*

*Hello Sir,* I am Danish Kumar Hotta (ECE), an Alumni of 2005 batch. I am now working with my client, Electronic Arts (EA Sports), at Vancouver, Canada. Fortunately, I have been accompanied by two more NISians of my batch, Tarini Prasanna Rath (CSE) and Dabbiru Kartik (ELE), in the same project, at Canada. We all remember the colourful days at NIST. The bunking of classes, and hiding in the cafeteria, and *ramu gumti*, in fear of Padhy sir. The extra curricular activities like Robotics, Cricket, etc, which we can now only dream of, being here. And above all, the moments that we spent with all the faculty. It's hardly a year that we left the college, but things have changed to a vast extent. Even now, when we take a glimpse of our college, from sites like Google Earth, we feel proud to be a part of the NIST family. When we look back into the past, we discover that NIST has indeed imbibed some qualities in us, which keeps us above all others in corporate world. Many of the NISTians who are going through this, must have realized it, as of now. A big hats-off to NIST and my NIST days. I would dream to be at NIST someday, with my friends, sitting in front of the main building, and Suresh sir staring at us, for bunking the class. Regards, **Danish Kumar Hotta, ESSBASE Technical Specialist, Electronic Arts, Vancouver, Canada.**

**From: "Abhishek Choudhary" <abhi4u05@gmail.com> To: akpanda62@hotmail.com**  
**Subject: Abhishek Shekhar Choudhary Date: Tue, 21 Nov 2006 15:29:42 +0530**

**Hello Sir**, I am Abhishek Shekhar Choudhary (EE200210043) a student of NIST 2006 Batch EEE. Right now I am in Bangalore and yesterday I got through Sonata Software Ltd, Bangalore. One more student from our College named Sujit Kumar Samantray from CSE dept got selected. The probable date of joining is January 2007. Our college students are performing very well here. Most of us are in touch with each other. There are lots of opportunities in Bangalore for fresher. The main purpose of writing this mail is to give Thanks to you and your Placement team. Because I think what you did for us is unforgettable. You gave us chance in so many companies that we can't think of. The result of pre-placement training is that, people from our college are performing very well here. Once again THANKS a lot sir for your valuable guidance. Nice to have a teacher like you. Thanking you, Regards,  
**Abhishek Shekhar Choudhary, Sonata Software Limited, Bangalore.**

**Date: Fri, 1 Dec 2006 18:10:28 +0530 From: <sudhansu.sadangi@gmail.com>**  
**To: psmallick@yahoo.com Subject: Respected Sir**

**Respected Sir**, Sir how are you? Hope this mail finds you in good health. Sir now I am working in KYOCERA WIRELESS (INDIA) Pvt Ltd, a Japanese company, working on Kyocera CDMA mobile handset, it is an 115,703 million yen company, in India only one R&D centre is in Bangalore, I am working in C, Embedded system and Japanese language. First and foremost, I want to extend my Hearty Congratulations to you for your great success in achieving DST award. You are such a deserving person whom I respect always from my core of heart. Really I am proud to say about my respected teacher. Sir, you are doing many things alone, like taking classes, coordinating M.Tech, Editor of NISTe-News, apart from these, you are making time for research work for what you have achieved the DST grant. I salute your hard work. I always appreciate your noble personality, attitude, enthusiasm, creativity and power of motivation. I am remembering all the days when I was with you, I have learnt a lot for progress in my life. I still miss our *enews* meetings. Really sir, I miss NIST life, specially Amalendu sirs silent nature, Reddy sirs continuous classes, our *enews* meetings, M Suresh sirs way of taking attendance, my MAHATMA GANDHI role in Waves, and while coming by bus many advices of Sudhakar bhai, Jogi bhai, Jagdish bhai. Convey my best regards to Amalendu sir, Santanu Mukherjee sir, Sangram Mudali sir, Reddy sir, Ajit Panda sir, Suryanarayan Panda sir, Sidhartha Bhusan Neelamani sir, Suresh sir, Pradeep Jena sir, Purna Chandra Biswal sir, Indraneel Mukhopadhyaya sir, Arun Padhy sir, Vinay sir, Ashok sir, Sabat sir, Basanti Madam, Sarita Madam, 6, 11, 9, 3 no Bus driver *bhaina*. I think you will be kind enough to reply to this mail, I am eagerly looking forward for your valuable advice. With best regards, **Sudhansu Sekhar Sadangi (the 1<sup>st</sup> batch of MCA), KYOCERA WIRELESS (INDIA) Pvt Ltd, Global village campus, Mysore road, Bangalore-560059**

**Partha S Mallick:** *Dear Sudhanshu, Thanks for remembering all of us. Still you have remembered Bus numbers with drivers, peons, library staff, accounts staff and many of us, I appreciate your feelings for the entire NIST family.*

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- Only 20 - 25% engineers of the country are employable.
  - China is not a threat, it is giving us challenge.

**Dr R N Mathur, Central Project Advisor, NPIU in NWIII, NIT, Rourkela**

## Interview

Hi Vijaylaxmi, Thanks for your mail. Sorry for late reply. With best wishes. Here is my interview. **Sonali**.

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

**Sonali:** I am Sonali Mohanty from ECE branch from 2001-2005 batch.



**Vijaylaxmi: About NIST memories...**

**Sonali:** Still remember my first day at NIST. I was quite nervous, new friends, new college atmosphere (heard about ragging in Engineering colleges), faculties etc. But everything went on fine after some days. I interacted with every one in college premises starting from Library, account section, office and cafeteria. Really those are the days, which everyone is missing in the rest of the life. All the fun during college hours with friends, then class bunking, preparation for exams, hostel life etc, etc. All those ups and down during the four years, assignments, seminars, projects... which kept me busy for shaping up my career and made me more disciplined. Though our faculties are very strict (just to guide us), but I can say they have also a soft corner for all students. My teachers had given me their help and support whenever needed. How can I forget, once Kiran sir had called me up and advised me to take right decision for my career. Panda sir, Amalendu sir, Ghatak sir, Suresh Sir all had helped us whenever we needed help.

**Vijaylaxmi: About your present company**

**Sonali:** Now I am working in ATOS ORIGIN, a French company, as a software engineer since last one year in the platform SAP for the project Procter & Gamble. It is a CMMI -5 company so the work involves both high quality Process and Product with optimized performance.

**Vijaylaxmi: How NIST helps students to face the future challenges...**

**Sonali:** Yes, NIST helps its student in building potential and improving skills to stand out of the crowd in this IT market. All those many seminars for each semester, deadlines for assignment submission helped me to improve the time management and presentation skill along with the soft skills.

**Vijaylaxmi: Advice for Juniors....**

**Sonali:** For all my dear juniors, I want to tell that learn from your mistakes, be confident and stand firmly to the core of anything you do and learn. Student life and corporate life are totally different. In corporate they want you to be more organized, and perfect in each and every work. For every work, you have the deadlines. But now you are getting the actual time to build your career. Try to learn more and more in this student life. Choose your own career path. Because getting a job after engineering is not the end of your success. This is the time you can try for higher studies like M.Tech, GRE and MBA. Because once you enter the corporate life you won't get time for higher studies. When I joined NIST at that time, IT market was very down. But after 2-3 years the market was booming like anything. So you should not worry about anything. But the thing is that the chances you are getting at the campus, make proper use of it. We, NIST students are lucky enough that big companies are coming to recruit us. So we should give our 100% effort. Be confident enough, work hard and have patience. You will surely achieve success. Thanking you, **Sonali Mohanty, Atos-Origin Pvt. Ltd., Goregaon (west), Mumbai.**

## Career Corner

### It's all about IT Padmaleena Kabita, Infosys, Bhubaneswar, Alumni (2001- 05)

IT- a big word in itself, which has made the world look smaller. But have we ever pondered how influential has it been in changing the way we think....the way we dream....and the way we live?



The way we LIVE? YES, I still remember my good old hostel days where I was always anxious to find out what's happening in the next room...but now... I don't even bother to notice what's happening in my next cubicle, isn't it strange? IT has in fact made me numb...absolutely un-reactive to my vicinity...My

System..My Desk...My Headphones.....have become my life at workplace. I am left all by myself....most surprisingly sometimes content with this style of living.

Is this what I had always aspired for? With all dreams and aims which I entered this industry seems to fade away with time....they are getting compromised with time.

I still remember my first days in college...My Deputy Director had posed all of us a question "Why are you all here?"

Answers came up like...to be an Engineer....to work for a reputed MNC... to go for higher studies with Engineering as a Strong point, etc. After the Excitement ceased he asked...."How many are to give jobs....not to do jobs? How many are here to be an Entrepreneur?"

Eyes gleamed with this idea....gates of an entirely new world opened for many....in fact all supported this idea... Gradually this faded....getting recruited in the fifth semester became like a dream come true! Once again a dream got compromised. The question which had once opened up new avenues for me had taken a back seat...IT was the Beginning!

Now with a job of 8-8, a so-called good salary at the end of the month...things had started to be taken for granted. IT was the Stable thing that one can expect. BUT Amidst all this...we all have forgotten the impending danger.....

Few days back got a news from a Big MNC.....150 employees of the MNC (in India) being laid off....isn't it shocking? IT is currently at peak....then who in this world would think of laying off its employees...but it's a fact. I got in touch with one of the employee of that MNC to verify the authenticity of the information. He was also in panic....within a matter of a day....would he be like thousands engineers in search of job again....is this what we call as stability?

If this is stability then why are a few of us going in for a parallel source of income....why for MBA? SECURITY...that's the answer. It's a human inner trait to crave for security and stability. Very few people realize this in time....Its time for us to come out of this delusion before IT changes the way we live. Before our big bosses used to think for us....before this so called Stability gets imbibed in us....its time for us to think for ourselves...its time we respect the original trait of human beings.

*"Live and let live"*

## Knowledge Teasers

### Kushal Bhut & Manmit Singh, Alumni, 2000-2004 batch

1. Which metal caused the Mina Mata disease in Japan ?
2. What is the study of Time called?
3. What are Van Allen belts?
4. What 'instant' invention did Edwin Land come up with?
5. What name did US mathematician Dr. Ed. Kassner give to  $10$  raised to the power of  $100$ ?
6. Which is the largest gland in the human body?
7. If you find yourself in an Infinite Loop in the Bay area, where would you be?
8. In the movie 'Forrest Gump', Tom Hanks was frequently shown drinking a particular drink. Which one?
9. Which industrialist began his career as an attendant for *Burmah Shell Gas* in Yemen?
10. Whose first foray into business was the founding of the 'Laugh-O-gram' corporation in 1921 which went bankrupt barely two years later?

*Ans. 10. Walt Disney 9. Dhirubhai Ambani 8. Dr. Pepper 7. Apple's HQ 6. Liver 5. Googol 4. Polaroid Camera 3. Belts of radiation above Earth 2. Horology 1. Mina Mata*

### IEEE Job Site - [www.ieee.org/jobs](http://www.ieee.org/jobs)

When looking for a job, take advantage of one of your member benefits and visit the IEEE job Site, [www.ieee.org/jobs](http://www.ieee.org/jobs). It is regularly updated with exclusive postings from leading companies in a broad range of industries and the CareerCast National Network. You should also visit IEEE Career Navigator, [www.ieeeusa.org/careers/](http://www.ieeeusa.org/careers/), which offers valuable tips and information for your search.

But don't stop there. Remember that you are your strongest resource. Recruiting professionals all agree that the best way to get a lead on new employment is networking among your professional contacts. Be prepared to craft a well-written resume and cover letter customized to highlight your qualifications for each specific position. You should also dedicate yourself to maximizing your search across all available online sites including the classified sections of magazines, like IEEE Spectrum, and working with recruiters who specialize in your industry.

Above all, work your search to your full potential and stay positive...because a job search is a full time job. Good luck and good hunting!

## Research and Development

### Conference Paper

1. **T. Panigrahi**, R. S. Raju and **A Patnaik** - "Simulation of Electron beam focusing system for TWT's using FEM" – Published in *the Proceedings of the International Conference on Microwave, Antenna and Remote Sensing(ICMARS-2006)* held at the International Centre for Radio Science(ICRS), Jodhpur, Rajasthan.

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"Best friends are better than boyfriends or girl friends."

- Mavis Jukes

## The Changing World

Abhro Mukherjee, Faculty, NIST

We always from generations, come to believe or sometimes forced to accept some axiomatic facts of our societies. This may not be predominant exclusively in our own Indian society but may be generalized to other parts of the world as well.

For example a widely accepted axiomatic believe sometimes, is a very commonly used term 'ORIGINIONAL NRI' (Non Resident Indians), the other NRI's (Not Really Indians, also known as RNI's (Resident Non Indians), R2I's (Return to Indians) and so many others. We the people hold the following truths to be self evident.



1. Dollar (US dollar naturally) is the ultimate currency and our so called Rupee will always depreciate against the dollar.
2. The inflation rate will always be higher in India than in USA.
3. USA is the ultimate destination of all Indians, and the jobs in the WEST will always be more attractive than those of the EAST.
4. The standard of living in the WEST will be higher than in India.

Just after my completion of studies from the much hyped *Grand Ecole of France*, my so called distant relatives created a pervasive drama on my decision to return back to India. They had poised a narrow and negative picture of the Indian manufacturing scene. Even after an absolute emotional mismatch with an alien society, I was almost forced to work for an European multinational giant (BEKAERT) in Europe for a period of two years. At the very end I could only realize that working in the richer land has only added more value to my matrimonial profile other than some serious technological gains. Rather even more embarrassing fact was, never ending interrogative questions posed on me by almost every human being I met at this part of the world. On the issue of returning back to my own mother land. Quiet often I felt that a petty thief even did not have to give much of clarification on police check post than me to my loving home land. This article is perhaps is a much more well thought reply to all those speculations and criticism I faced on the past. "Oh what a fall was there my countrymen" Just consider the following realities:

### Indian inflation rate

The inflation rate in India has been hovering at between 2% and 4% per year for past several years. With salaries increasing at a much faster rate the real income is increasing at a much faster rate too.

### The Indian Job Market

Anyone who had the real option to go abroad was considered "MAD" if he did not exercise that option few years before. Presently in my own eyes I have seen that how middle class families were compelled to take huge loans to go to the USA to complete the master degree even after not getting financial aid, since they were just too sure that (a) they would get financial aid after one Semester (b) They could recoup the loan amount and much more as soon as they finished their degree. But to my ardent surprise most of my Indian friends are delaying graduation or returning to some other Universities with heftier loans only to hope that some day their dream job would liberate them from the never ending infinite loop. But on the other hand the Indian software giants can still boast of hiring 50,000 to 75,000 people per organization with salaries exciding more 5 lakh per annum. In today's environment any one who even thinks of quitting the steady software job in India and going to the fancy land of the WEST can only be considered a Fool.

Some one on just the other day just laughed about my derivations and with a stern voice and sarcastic mannerism confronted me by saying (WITH A BIG BUT) BUT ABHRO?? 1 Dollar equals 48 Indian rupees?

My answer to him always would be that if he could be little bit more wiser and read the world bank report we would quite certainly discover that majority of the country wise analysis is made with respect to the (PPP-Purchase Parity Power) and not like the blatant comparisons of currencies we usually so. Even in India today it is not hard to imagine to get a cup of coffee in an fancy tea stall or a wonderful dinner at a luxurious AC restaurant with few amount of bucks. Just Imagine How painful experience this might be if we have to pay a few hundreds of dollars even to get an hair cut in the USA. I can only conclude that the myth of one dollar = 48 rupees can be only said that if person earns X dollars in the USA than we can almost achieved the same standard of living by 10X factor in India and not with heavy deficit of 48 rupees = 1 dollar. And this conclusion is given by the smartest economist of the World on the basis of purchase parity power.

On the manufacturing side TISCO has already earned the distinction of becoming the fourth largest steel manufacturing company after its conjunction with CORUS. The Reliance Jamnagar plant is the largest plant of its kind in Asia. This week India has been already named to become the second largest investor in UK. In this era of reverse trend and economic over turn of power if I introduced the law inverse Kinetics of economics, power, money and society satisfaction (stronger family bonds, respect for elders and very few divorces) then the days are not far behind when the Americans and so rest of the world will soon write the "IATFS" exam (Indian aptitude test for foreign students) to compete for an place in our best of IIT's and IIM's.

## February 15, 2007 – the 5<sup>th</sup> Birthday of NISTe-News!!

NISTe-News will complete 5 years on February 15, 2007. NISTians are going to celebrate the 5<sup>th</sup> birthday of NISTe-News. Readers are most welcome to contribute for the *Special Birthday Issue* of NISTe-News. There are many Prizes for Cover Page Design, Creative Photograph, Cartoon, Article and Poems. Don't miss it!

----- Team NISTe-News

## Person of the Month

In this issue of NISTe-News we have one of our beloved teachers and colleagues, **Dr**



**Amalendu Patnaik**, the R&D Coordinator of NIST as the person of the month. Dr Amalendu Patnaik is presently working as the Assistant Professor of the Department of Electronics and Communication Engineering. Since he has joined at NIST in August 1999, he has been playing a significant role in the journey of success of NIST. In this month, NIST has received Rs 1.00 crore from the Department of Science and Technology where Dr Patnaik shared an important role. He has also served NIST as B.Tech Course Coordinator. Dr Amalendu Patnaik is the son of Sri Lalmohan Patnaik and Smt. Inakhi Patnaik of Bhanjanagar, Ganjam, Orissa. After completion of schooling

from UB High School and +2 from KSUB College, Bhanjanagar, he got admission in Berhampur University for graduation. He got the 5<sup>th</sup> rank in the University in UG and did his MSc in Electronics and PhD from the same University. He did his Post-Doc from the University of New Mexico, USA. During his PhD work, he was a CSIR research Fellow and achieved the University best researcher award in 1998. Dr Patnaik has already received many other awards in his career like the URSI Award in 2005, Boyscast Fellowship in 2003, IETE – JC Bose Memorial Award in 2000. He has also received the President’s Scout Award in the year 1985. He is the regular reviewer of IEEE Transaction on Antennas and Propagation, IEE Proceedings – Microwaves, Antennas & Propagations. At present, he is handling a Research Project of DST, Govt. of India. Dr Patnaik has already published 14 research papers in referred Journals and 23 other research papers in various conference proceedings. He is a member of IEEE(USA) and Life member of ISTE(India). His present research interest is in Soft Computing technique applications in Electromagnetics, Numerical Techniques in Electromagnetics, CAD for Microstrip Antennas, Reconfigurable Antennas. He likes to spend time in technical discussions. All the Best to him for a wonderful and successful future ahead.

## Photograph of the Month

*(View-Galleria: by Dr M Reza, Faculty, NIST)*



# 10 Glorious Years of NIST

## 10 Glorious Years of NIST

### Recollections of NIST

Waves  
1996



Placement Director Anchoring the Waves'96



From Left: Resma Rout, Anucampa Patnaik, Uzma Rahim, Bandana Padhy



Soumya Panda, Anita Sahu, Resma Rout, Ujma Rahim



Middle line From Right: Dr AK PAdhy, Dr AK Panda, Ms. Geetika Mudali,, Dr Ravi P Reddy, Mr Sangram Mudali.

Ms Uzma Naz Rahim

