

Message from the Director

NIST is 10 years old. The first batch of 180 students was admitted in the Institute on 18th



September, 1996, amidst lot of trepidation, excitement and hope. The faculty and staff were charged with a mission and they did their job commendably well. The original faculty members of 1996 with the exception of Dr. Chandan Nahak who is presently at IIT, KGP, are all intact and full of enthusiasm and energy as they were in 1996. So are the staff who have completed 10 years of service. Few could have imagined then that the Institute will make such tremendous strides in all areas within such

a short time frame of 10 years. Dreaming of the future was a luxury in those times, we were thinking of the next day, the extra classes, the food in the hostels, the transport service, etc. All of us do remember the 1996'ers with lot of fondness and they earned our respect with their intense hard work, dedication and faith in a new Institute called NIST.

The next 10 years are going to be tougher in the sense that the benchmark has been raised higher by our exponential progress in the last ten years. So far, NIST has probably not even reached half its potential. A lot of work needs to be done in attracting better human resources (read faculty) and doing quality research. We need to attract even better students from all over the India to make it a true melting pot of minds and cultures. We need to invest our energies into producing more thinkers, innovators and entrepreneurs. Our students have to distinguish themselves in all that they decide to participate or compete in. As a part and parcel of the social community of south Orissa, the Institute has to play a greater role in the social upliftment of the surrounding areas. We can no longer afford to stay in our glasshouse of technical excellence, in an area teeming with malnourishment, poverty, hunger and unemployment. We have to create programs to alleviate the miseries of those around us. More employment oriented training programs for the poor and needy is necessary for the Institute to remain socially relevant.

On this occasion, I, on behalf of the Institute, congratulate the entire student community, alumni, faculty and staff of the Institute and rededicate ourselves to the service of the country. With Best Wishes,

October 15, 2006

Sangram Mudali

Message from the Editor

An alumni (1998 batch) had sent me an advertisement quite a few days back for the recruitment of freshers in TCS. I went through the advertisement and found that TCS has brought some changes in their recruitment policy. The most remarkable change I observed was that the science graduates (BSc, MSc) have been given the equal eligibility status along with the engineers, for the software jobs. Later on, I came to know that many other software and hardware companies have adopted the same policy. The new policy of TCS and others indicate that it is performance through which one will be judged and evaluated rather than pure degrees. Even 10 years back, we could not think about today's global market. Our products used to compete within the country. Now our products are competing globally due to which better quality products are being produced. Now, in case of recruitment also, the concept is welcomed by IT companies where they don't want to restrict IT jobs only among engineers. They have removed the wall and have made it open to all based purely on performance. So, it is the time for other Govt./Private/Public organizations also, to rethink and modernize their recruitment policy.

October 15, 2006

Partha S Mallick

Placement of the Last Month (September 15, 2006 - October 15, 2006)

B.Tech(2003 – 2007 Batch)

1. Himansu das Mohapatra	U.S.Technology, Teruvendapuram
2. Nihar Ranjan Mishra	U.S.Technology, Teruvendapuram
3. Sovit Nath	U.S.Technology, Teruvendapuram
4. Debasish Das	U.S.Technology, Teruvendapuram
5. Indraneel Banerjee (MCA)	U.S.Technology, Teruvendapuram
6. Sabyasachi Pradhan	L & T Ltd., Kolkata
7. Rahul Kumar Singh	L & T Infotech, Chennai
8. Rakesh Dash	L & T Infotech, Chennai
9. Ch. Anil Prusty	Syntel Inc., Mumbai

Letters to the Editor

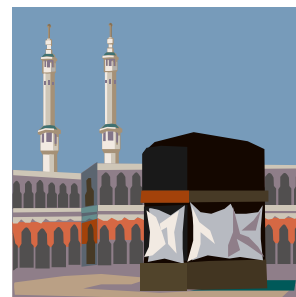
To: niste_news@yahoo.co.in

Subject: Good morning sir

Date: Fri, 22 Sep 2006 11:09:38 +0530

Dear Sir, Good morning. Hope this email finds you in the pink of your health. It gives me immense pleasure while writing to you. I am elated to learn about the newest venture of NIST of starting the MBA course. I would like to congratulate all the faculty members and Director Sir for his endeavour. It gives me a sense of pride to look back at the college where I had once studied. If NIST continues to grow at this pace, soon it shall be amongst the five best private colleges in the country. I was in batch 2000 in NIST. After passing out, I was working for a brief period with the magazine group, "Electronics For You", as technology journalist. I had published a few articles written in one of the business magazines in the group. One of the many articles was about "Presentations". I am attaching the *pdf* file of the article. Please include it in either the NISTian or E-News. It shall be of some help to the students who are studying in NIST and make a lot of presentations within and outside the college as well. Thanks and Regards, **Ashutosh Pradhan, Technical Writer(FTM-MSL), ST Microelectronics Pvt Ltd, Plot 1, Knowledge Park III, Greater Noida-201308 (U.P), Phone: +91-120-4003435 (Direct), Official Extn : 3056 (Internal), Fax: +91-120-4003160.**

**Wish you all a very Happy
Dewali and
Eid Mubarak
-NISTe-News**



An Inspiring Letter....

From
Major General Ram Pratap, VSM
Commandant

14 October, 2006

Dear Sri Mudali,

- 1. Please accept my heartiest congratulations on completion of 10 glorious years of NIST.**
- 2. NIST magazine and the News letter made an interesting reading. Many of the achievements are note worthy and my compliments to you for the same.**

With best wishes and warm regards.

Sincerely Yours
(signed)
Ram Pratap

Profile of an Entrepreneur

Collected by Sanjeet Dash, 3rd Year, Member, Team NISTe_News

On its effort to foster entrepreneurship among the young engineering graduates, NISTe-News will publish the profiles of successful entrepreneurs who have shown their courage by choosing entrepreneurship as their career.

In this issue we are writing about **Mr N. Prasad, Chairman and Founder of MATRIX LABORATORIES, Mumbai**. He comes from a middle class family who was educated in various places of Punjab, Hyderabad, New Delhi and finally completed graduation in Chemical Engg. In the beginning of his career, he worked as a chemical analyst at *Indian Molasses*. Later on, he was transferred to the sales department of the same company. In 1989, he moved to *Rhone Poulenc* as the Head of Sales in Hyderabad and then moved to *Plant Organics* but it was a tough decision to move there as it was a loss making company. Then Prasad thought that it will be a great opportunity for him to show his capability. He joined and within a year, the company began to show profits and the owner eventually sold it to NRI investors who left Prasad as CEO of *Vorin Labs* (A subsidiary of *Plant Organics*) and after that this soft spoken man never looked back. Then he acquired shares in *Vorin Labs* and continued as its MD. Under his leadership *Vorin* not only turned around but became a preferred supplier to companies like *Ranbaxy*. In the year 2000, Prasad and another investor N. Ravinder bought *Harren Drug Pharmaceuticals* and merged it with *Vorin*. Prasad bought *Ranbaxy's* share and in 2001, he renamed it as *Matrix Labs*. The growth of *Matrix Labs* has been at lightning speed. Over the last five years, *Matrix* has acquired and picked up equity in seven companies including *Docpharma (Europe)* and *Mchem (China)*. In 2006, *Matrix* revenues were Rs. 1158.61 Crores. Where a company takes 15 years, Prasad did it in just 5.

Now he now wants the *Matrix* will be among top five Indian Pharma Companies in near future. Here is the example, how a Chemist has become the Chairman of a big company like Matrix labs.

10 Glorious Years of NIST

10 Glorious Years of NIST

Celebration of 10th Birthday

NISTians have celebrated the 10th Birthday of their institute, National Institute of Science and



Technology(NIST) on September 18, 2006 at the auditorium. The proud NISTians enjoyed each and every moment of the occasion. The massive gathering of the delighted staff, faculty members and students have shown that they are ready to create history in the technical education of the country in the coming 10 years. The 1996'ers were the VIPs of that wonderful occasion who shared their experiences. The Director, Professor

Sangram Mudali, Placement Director Mrs. Geetika Mudali, BTech Course Coordinator Dr Arun K Padhy, Pre-Placement Coordinator Mr Sudhir Panigrahi, Admin Officer Mr H N

Mudali focused on the achievements of NIST in these glorious 10 years and also shared the hardships they faced during the early days. The Director briefly introduced the 1996 team and also recollected their contribution to NIST. The Placement Director recollected the exciting moments of the first placement by Satyam, Hyderabad at NIST campus which recruited the first 7 students then. It was an



exceptional achievement by NIST in 1999 when software companies were few in the country and they hardly heard the name of any engineering college of Orissa. Finally, the Director distributed certificates of merit to every 1996'er for their 10 years continuous and dedicated service to NIST. The NIST 10 year Birthday cake was cut by the 1996'ers and was distributed to the audience alongwith delicious snack packs.

An old Vespa was the only vehicle of Dr Arun Padhy, Dr Ajit Panda and Dr Chandal Nahak in 1996 when the NIST campus was in Berhampur University

– Dr Arun Padhy in his speech at the celebration function of 10th Birthday of NIST

Recollections of NIST

From: Geetika Mudali, Placement Director, NIST

The 1996 batch of NIST had put tremendous faith in NIST and its management when they joined. They quickly got accustomed to the new NIST campus and all of them contributed in one or the other way for the development of NIST. Since they were the first batch they showed the path of discipline and commitment to the other batches of NIST. Many JEE toppers joined NIST in the 97 batch showing that NIST has made a mark as the number One College of Orissa. This was one of the most brilliant batches in the history of NIST. Today students of this batch are very well placed across the globe and are doing excellent work in their respective fields. Many members joined the NIST family during the year 97 and the trend continued in the next years to come. Hostel 4 was the new hostel added up. Waves 97 was held in February 98. Many students participated and for the first time Fashion show was organized. The students took the responsibility of organizing the Waves, unlike the 96 Waves which was organized by the faculty. The NIST team participated in the Inter College tournaments (cricket, table tennis) and won many medals individually and as a team under Berhampur University. The NIST table tennis team headed by Mr. Srikant Panda, Mr Abhik Brahmachari, Mr. Manoj Das and Mr. Akash Das changed the trend of winning stream of Rayagada college and MKCG Medical College and become champions for successive three years. Mr. Manoj Das, Mr. Sushrut Sinha, Mr. Amitabh Mishra and Mr. Bidhan Das were selected for the University team to participate in Inter University Cricket tournament. The internal as well the semester examinations were conducted smoothly. For the first two semester examinations, Berhampur University deputed the superintendents to supervise the examination. Based on the fairness in conducting the examination and the reports saying that the invigilators of NIST are more than sufficient to conduct the examination and no external deputation is needed, the Berhampur University deputed Director, NIST as the superintendent for the third semester onwards. The rules for the internal examination was set by Dr. Ravi P Reddy that a student cannot rotate his head by more than 15^{deg}. That means the student can rotate 7.5 degree to left and 7.5 degree to right. Thus, the trend for conducting exams in a fair and honest way was setup by NIST and it became a role model for other colleges.

From: Sameer Behera, Sr Lab Supervisor(Physics)

After joining in 1996, we were staying in a private mess near Berhampur University. The other mess members were Naresh, Haria and Kishore. Our mess was 500 meters from the college. Almost everyday we used to buy vegetables and I was the cook. I can recollect one incident even today. Once at 2AM, someone was knocking at the door, we got frightened (then we were very new at Berhampur). The man was shouting saying that he was Raju (our colleague Raj Mahakud). Then we became anxious...what happened? He told, 'Come with me, don't say anything, just follow me". Without arguing with him, we just followed him and finally reached the college campus. Then we were instructed to do gardening. We started work and continued till morning. Then again went to the class in the morning. Another incident is in my memory list. One day, the Physics lab class was

continued till late evening. After the class I slept in the Lab itself and when I got up, it was 9PM. Actually in spite of the hectic schedule, life was really enjoyable that time.

To be continued.....

News Corner

On line Examination System

Raju Pal, NTCS

NIST has recently added another feather of success to its cap. It is the shifting of conventional paper based examination to online examination system. After dedicated and rigorous effort of the NTCS and NIST faculty members, the new system has got success. The online system based class tests have already started at NIST, for 1st year B.Tech and MCA students under the able supervision of all NTCS members. Around 500 students appeared for this revolutionary event. After appearing the Online Exam, students have shared their views of satisfaction to this online system through which they are getting immediate result. So, now the students are not required to wait for a long time for the result or faculty members are not required to take the burden of evaluating hundreds of answer papers, it is saving their valuable time. Gradually the other exams of NIST will be held based on the same process. BPUT is planning to welcome this *online system* in its exam process. So, again, what NIST thinks today, others think it tomorrow.

Windows to Linux

Go Linux –another challenge is being taken by the NIST faculty members. Working at Linux platform – helps the users in many ways which is known and realized by all but very few could show their courage in learning and using it. NIST Deputy Director Dr Ravi P Reddy and his team have taken the challenge to bring the NIST faculty members from the windows operating system to the Linux. Everyday morning 7:30 to 900 AM Linux classes are being held at Room 306, Lecture Hall Complex. The faculty members comprising of Mr Pradeep K Jena, Mr K Laxminarayana, Ms Sumitra Ojha are giving training to NIST faculty members and both the theory and lab classes are being held. Faculty members

from the Department of Physics, ECE, EIE, CSE, IT are attending and showing their interest in learning this advanced operating system. They are ready to say “no more Windows, let us go with Linux”.

Conference/Workshop attended

NIST Faculty **Mr Santosh Patnaik** attended a workshop on “Low Power VLSI Design” at IIT, Kharagpur. The workshop was held from September 12-23, 2006.

IEEE/ISTE Lecture Series

Mr Manmath Ray of Jatayuu Software, Bangalore has given a Lecture on “J2ME in Wireless Domain” on October 19, 2006. Mr Ray has explained clearly the technology of using Java, C, C⁺⁺ in wireless communication systems and their industrial trends. M.Tech students, B.Tech final year students and faculty members were present during the Lecture. The speaker, Mr Manmath Ray, is the student of the first batch of M.Tech, NIST.

Monsoon Cricket - 2006

Rakesh Kumar Patra, Final Year

The ever vibrant ambience of NIST was further rejuvenated by the onset of Monsoon Cricket – 2006.

There were seven teams (CSE, ECE, EEE, EIE, IT and MCA) of final year and the faculty Team. The first match was between CSE and EIE in which the CSE won, followed by IT defeating

EEE. There were few nail biting moments when ECE defeated MCA in the third match. In the first semifinal CSE surpassed the faculty team and in the second, IT defeated the ECE team to lock horns among each other in the most awaiting and sensational finals, then what followed was electrifying match of cricket with CSE finally managing to defeat the IT after



grueling and arduous effort. Our honorable Deputy Director Dr Ravi P Reddy was present there to encourage the teams. Biswa Ranjan Ray of CSE was declared the best batsman for his gallant innings. The Cricket tournament gave us enough of such moments to be cherished by us for in the years, when we won't be together.

SANKALP'2006 – The Winners

- Rakesh Kumar Patra, Team Sankalp' 06

The team *Sankalp 2006* convey their congratulations to the participants who bagged the laurels in various events. Here is the list of the winners with the events name.

DAKSH - 1ST Prize: Badri Narayan Patro-NIST, Debasish Panda-NIST, **2nd Prize:** Amiya Prasad Behera-NIST, E. Bikram. Raj Kumar-NIST, **3rd Prize:** Ranjit Singh Garewal-NIST, Samparna Tripathy-CET. **2. QUIZZERIA - 1ST Prize:** Gyaneswar-SIT, Debasis-SIT, **2nd Prize:** Rohan Naik-NIST, Anyasuta Naya-CET, **3rd Prize:** Asis Das-SIT, Rajendra Kashyap-SIT, **3. TECHNOVISTA(ECE) - 1ST Prize:** G. Sunita-SVEC(AP), Divya Krishna-SVEC(AP), **2nd Prize:** P. Sandhya (M.Tech) - NIST, **TECHNOVISTA (EEE/EIE) - 1ST Prize:** Siddhartha S.Rout-NIST, Biswa Bihari Pradhan-NIST, **2nd Prize:** Shilpi Mohanty-NIST, Luisa Mohanty-NIST, **TECHNOVISTA (CSE) - 1ST Prize:** Asish Ghosal-NIST, Pankaj Kamani-



2nd Prize: Ankan Ghosh-NIST, Sanket Pattanaik-NIST, **TECHNOVISTA (MANAGEMENT) - 1ST Prize:** Asutosh Tripathy-JITM, **4. SPARX - Mr SANKALP:** Asutosh Tripathy-JITM, **Ms. SANKALP:** Samparna Tripathy-CET, **5.PARAKRAMA – Unreal Tournament: 1ST Prize:** Jyoti Prakash Dash-NIST, **2nd Prize:** Mayanka Shekhar-KIIT,

NFS: 1ST Prize: Mayanka Sekhar-KIIT, **2nd Prize:** Satya Prakash Rath-NIST, **HALO: 1ST Prize:** Smarak Das-SIT, **2nd Prize:** Tanmay Dehuri-SIT, **Counter Strike: 1ST Prize:** Sanjiv Kumar Rai-KIIT, Anshuman Behera-KIIT, V.Sheshadree Narayan-KIIT, Yarmia Anuj Kalundia-KIIT, **2nd Prize:** Sangram Kishore Satpathy-NIST, Jyoti Prakash Dash-NIST, Shashank Sekhar-NIST, Ramya Ranjan Sathy-NIST, **Age of Empires: 1ST Prize:** Ramya Ranjan Sethi-NIST, Sarat Rout-NIST, **2nd Prize:** Sangram Kishore Satpathy-NIST, Jyoti Mohini-NIST, **6. PICASSO - 1ST Prize:** Rudra Prasad Samal-NIST, Aniket Patnaik-NIST, **2nd Prize(Joint winners):** Ruchira Mohanty-NIST, Lipsa Mishra-NIST, Lisashree Mishra-NIST, Ansita Nayak-NIST, **3rd Prize(Joint winners):** Bikram Kumar Pattnaik-SIT, Krishanu Chaterjee-SIT, Luisa Mohanty-NIST, K. Gautam-NIST, **7. TECHQUEST - 1ST Prize:** Krishnananda K.R-SIT, Sumeet Dash-SIT, **CSE, IT & MCA: 1ST Prize:** Pradyot Mishra-NIST, Aradhana Satpathy-NIST, **Electronics- 1ST Prize:** Sanjeev Kumar Mudali-NIST, Debasis Panda-NIST, **8.'A' Seek: 1ST Prize:** Shilpa Soni-NIST, Anita Tripathy-NIST, **2nd Prize:** Badri Narayan Patro-NIST, Amiya Ranjan Behera-NIST, **3rd Prize:** Geetanjali Patra-RIT, Subrat Kumar Sahoo-NIST **9. CHARIZMA - 1ST Prize:** Pradyot Mishra-NIST, Sangeeta Dey-OEC, **2nd Prize:** Asish Ghosal-NIST, Alok Ranjan Sahu-SIT, **3rd Prize:** Dinker Kumar Verma-NIST, Pravash Ranjan Khilar-SIT, **10. CHAKRAVYUH - 1ST Prize:** Pravash Ranjan Khilar-NIST, Harish Chandra Behura-NIST, **2nd Prize:** Mousumi Bej-NIST, Puspanjali Patra-NIST, **3rd Prize:** Anil Kumar Bikki-VEC(AP), Manoj Kumar Abburi-VEC(AP) **11.E-WIZARD – Software Model- 1ST Prize:** Ronak Kumar Samantray-CET, **2nd Prize:** Pradyot Mishra-NIST, **Hardware Model: 1ST Prize:** Suvendu Kumar Mohapatra-SIT, Chinmaya Kumar Mishra-SIT. **12. TYCOON - 1ST Prize:** Deepika Mishra-CET, **2nd Prize:** Ankan Ghosh-NIST, **3rd Prize:** A.Satyaprakash-SIT. **13. PANORAMA - 1ST Prize:** Sabyasachi Mohapatra-SIT **2nd Prize:** Soumyakant Ray-NIST **3rd Prize:** Rashid Zama Khan-NIST **14. OLE - 1ST Prize:** NIST, Berhampur, **2nd Prize:** MITS, Rayagada, **3rd Prize:** SIT, Bhubaneswar. **15. ROBOSTORMZ (MANUAL) - 1ST Prize:** Abhijit Satish Kumar Dwary-NIST, P.K.Gautam-NIST, Sib Narayan Prusty-NIST,



2nd Prize: B. Jagadish-NIST, Soobhraj Purohit-NIST, Sthitapragyan Mohanty-NIST

Success of NIST students at International Symposium

G Gayatri of 7th semester, CSE and **Swastik Choudhury** of the same semester IT, presented their paper titled *Use of Artificial Neural Network for prediction of protein structure* at an International Symposium on Computational Biology & Bioinformatics (ISBB2006) organized by Silicon Institute of Technology, Bhubaneswar. Congratulations! NISTians are expecting many more such achievements from others.

Club Excel

- - The Programmers' club

Pradyot Mishra, President, Club Excel, NIST

"The objective of Club Excel is to excel in the field of programming for creating efficient and innovative solutions to the real world problems."

The club was founded by **Asish Ghosal** and myself with the inspiration of our faculty **Sidhartha Neelamani** sir. It was previously known as C- Club. In this club the members will gain as well as exchange their programming skills and try to face the challenge of the Programming World. All students of NIST can be members of this club. Currently there are 215 members in this club. The club promises to produce highly skilled computer professionals and to lift the name of NIST to greater heights as the programmers' hub. The executive body is as follows. **Head of the Club : Mr Sidhartha B. Neelamani, Faculty, CSE, NIST, President : Mr Pradyot Mishra, CSE, 5th Semester, Vice-President : Mr Dinkar Verma, CSE, 5th Semester and Secretary : Mr. Asish Ghosal, CSE, 5th Semester. For more information about membership please contact me.**

C-Programming Contest Results - a Club Excel Report

The C-programming contest organized by Club Excel NIST was held on September 15-17, 2006. The B.Tech. 5th Semester, B.Tech. 3rd Semester, MCA 5th Semester and MCA 3rd Semester students participated in the test. Here is the result – the Toppers are **Om Prakash Sahu, 5th Semester, MCA, Anand Kumar, B.Tech. 5th Semester, CSE, Sidhartha Sankar Rout, B.Tech. 5th Semester, ELE. The Next top 20 students are,** Amit Kumar Bhakat, B.Tech. 3rd Semester, Rohit Agarwal, B.Tech. 3rd Semester, Santoshi Prasad Sahu, B.Tech. 3rd Semester, Madan Mohan Padhy, B.Tech. 3rd Semester, Ansumalini, B.Tech. 3rd Semester, Tapan Kumar Mangaraj, MCA 3rd Semester, Chhanda Charan Patnaik, MCA 3rd Semester, M. V. Shrikat, MCA 3rd Semester, Alok Kumar Singh, MCA 5th Semester, Amiya Prasad Behera, B.Tech. 5th Semester, EIE, Priyanka, B.Tech. 5th Semester, CSE, Chandan Kumar, B.Tech. 3rd Semester, Sandeep, B.Tech. 3rd Semester, Rahul Kumar, B.Tech. 3rd Semester, Sangram Patro, B.Tech. 3rd Semester, Siba sankar Sahu, B.Tech. 3rd Semester, Sambit, B.Tech. 3rd Semester, Bibek Kumar Patro, B.Tech. 3rd Semester, Sonu Agarwal, B.Tech. 3rd Semester, Pratyusa Chowdhury, B.Tech. 3rd Semester.

IT Olympiad Test-2006

The sixth Information Technology Olympiad Test was conducted at different centers on September 24, 2006. In our college, 75 students of different batches have appeared for this examination. NIST faculty **Mr. G.V. Kiran Kumar** was the Center Superintendent and the coordinator of the students activities center, **Mr. Vinay Kumar Das** coordinated the entire program.

You can send us your article, poem, news of achievements, jokes etc at niste_news@yahoo.com

----- Team NISTe_News

Alumni Page

Wipro Technology – the 3rd Prize for NIST Alumni

Lipsa Naik, the 2001-2005 pass out student of Electronics and Instrumentation Engineering, has won the 3rd Prize for her excellent performance in training of Wipro Technology, Bangalore. NISTians are proud of your achievement.

From Mailbox:

Date: Tue, 19 Sep 2006 10:40:16 +0530

From: "Rajalakshmi_Sahoo-b05825" <b05825@freescale.com>

To: psmallick@yahoo.com

Subject: Hello Sir

Sir, Congrats to you and the entire NIST family for celebrating a decade! I am so happy to see so many achievements in such a short span of time. I hope everything at NIST is going on great. I hope you remember me. I was working with CG Core El Programmable Solutions, Bangalore. I have joined *Freescale Semiconductor* this July as a Design Engineer. I really feel proud to represent my college here and I truly hope to see a lot of us here soon. I hope with each passing day every NISTian makes his mark and makes NIST a choice for every aspiring engineer. Regards, **Rajalakshmi Sahoo**.

Research and Development

Conference Papers

1. **P. S. Mallick** and C K Sarkar – “Electron mobility in a blue LASER/LED material”, Accepted for publication in *the proceedings of the International Conference of Optoelectronics, Fiber Optics and Optical Communication(Photonics2006)* to be held at Hyderabad, India in December 13-16, 2006.

Future Technology

Next generation radio

The renewed interest in FM radio after its unshackling from regulatory control in India is giving way to digital radio broadcast. Digital audio broadcast (DAB) or digital radio, which includes digital mobile broadcast (DMB) with TV and multimedia, has already been deployed in 40 countries, with over 1000 services on the air. In addition to crystal-clear reception quality, digital radio receivers can provide text-based station identification, programme guides, weather information and news snippets. South Korea has developed DMB to provide mobile TV from terrestrial and satellite platforms on a variety of portable gadgets. China is planning to deploy DAB-based digital radio for Beijing Olympics in 2008. Back at home, Indian government agencies as well as private players like Bharti, Star TV, Zee TV and Tatas are exploring the possibilities of terrestrial DMB in India in association with the Korean Broadcasting Commission.

Single-electron device

Engineers from NTT Corp. have designed a silicon transistor controlled by the motion of individual electrons. The transistor may find application in next-generation integrated circuits for logic operations. At negative voltage, the transistor is off; at higher voltage, the transistor is turned on and individual electrons file through the circuit, as opposed to thousands at a time in a conventional device. The transistors have been dubbed ‘single-electron tunnelling’ (SET) devices and are typically made with a metal wire interrupted by insulating barriers that offer the means to control electron flow. Particular voltage levels are applied across the barriers, to manipulate charge, as a means of encouraging or impeding electron flow.

Student's Corner

From Within

Vijayalaxmi Mohapatra

2nd Yr., B.Tech, Member, Team NISTe_News

Sometimes it's not heard;
 Sometimes it's being ignored;
 It wants someone who's listening...
 -That small, distinct voice from within!

Sometimes it's not felt;
 Sometimes it's not being dealt;
 It needs someone who's caring...
 -That deep, sincere feeling from within!

It wants to tell something;
 It wants to give something;
 All the happiness and pride of living...

-That pure, sacred soul from within!

Just lend your ears to it;
 Just let your heart feel it;
 It in itself is fulfilling...
 -That overwhelming pleasure from within!
 Doesn't matter if others seem unknown;
 Doesn't matter if one's stranded alone;
 Its worthless to spend time searching..
 For the best company lies within!

Fulfillment is not found by wandering ..
 Happiness & satisfaction starts from within!
 Life becomes meaningful for just one thing
 Only if one knows oneself – from within!!

The Day with Amit Sana

- Debal Kumar Chakraborty, Final Year

Saturday 14th October 2006 was a day I will cherish throughout my life. I met Amit Sana, the runners up of Indian idol - 2005". He came by Howrah-Chennai Mail & reached the Berhampur station at 7:40 am. "A star coming by Indian railways", I wondered but that is the



specialty of Amit Sana. In a torn out blue jeans, a full sleeve cream T-shirt, a base ball cap & with a stylish speck, Amit Sana shook hands with me. On the platform he was welcomed in the typical Indian tradition with *arti* & *tilak*. Amit was accompanied by another singer *Monalisa*. Amit's relatives had also come to the platform. They were seeing him nearly after ten years. That was the reason that when they hugged Amit, tears rolled out of their eyes.

When I was traveling along with Amit to Swosti Hotel in Gopalpur, I came to know that Berhampur is Amit Sana's native place. I was surprised again when he said "I was in Jamshedpur for couple of years to complete my graduation from Co-operative college". Since I also come from the place I told him that you have made Jamshedpur proud. He was asking me that what were the developments that have taken place in Jamshedpur etc. He still misses his friends there. He loved the place Bistupur a lot.

It was a long time since Amit had visited Berhampur. Although Amit was thrilled but he was always down to earth. The first place where Amit went was his grandma's house. I was with him nearly a day but not a single moment he let me feel that he was a star. I was addressing him Sir but he said "Debal would you please call me Amit only Amit?". First I was feeling little uncomfortable but as time flew I started calling him Amit. Amit was like his father his father was asking me about NIST where his son was going to perform, he was calling me

Beta. Like “Beta how far is your college from the hotel?” “Beta how is the security arrangement?” It was really surprising to see such a humble, polite & generous family of a star.

The event manager said that the last place where Amit had performed, students got crazy and it was very difficult to control them. On this I replied that you are going to perform in a college where discipline comes first. I was proved right before and after the show. Today Amit is a star just because of the audience he performs for. It was the votes of the people who liked his voice & changed his life from an ordinary man to a singing sensation. Amit still remembers this fact because whenever he signs an autograph he says to himself that these people are my strength. A way to say thanks to his voice lovers.

KALEIDOSCOPE **Rakesh Parida, Final Yr, Member, Team NISTe-News**

When I sit down to think about themes to write about in Kaleidoscope, I often get the weirdest ideas. More often than not they revolve around defaming individuals, which most columnists are proficient at. But, has anybody realized how difficult these themes are to come by? I wouldn't be surprised if my fellow budding columnists are despaired by the lack of ideas to work with. Moreover to be a columnist in an engineering college's monthly news magazine should be the most out of the blue job ever. If you thought that I am caught in the wrong job, place & time then think twice. This



Kaleidoscope lets look at the most astute individuals being caught in the weirdest of jobs. The one which grabs my attention first up is the recent literary endeavor by the honorary president of Pakistan, Gen. Pervez Musharraf, 'In the Line of Fire'. This piece of superlative fiction may have landed on the top shelves of New York book stores, but back in the sub continent it has received mixed reviews. Even within his own nation, he has run into stiff criticism over the portrayal of his nationalism. The Indian government hasn't been all that quiet while voicing its displeasure on the twisted and remolded facts featured in the biography. While at the same time old patron Uncle Sam forgot to play the favoritism card on this brash display of diplomatic secrets. In the receiving end of all these was poor old Mushy all deserted and helpless. With tasting his own medicine over militants bombing up the entire Pakistan & humiliation in various international diplomatic circles, life's certainly not easy. Kaleidoscope recommends not only Mushy but all world leaders to refrain from toying with biographies especially when you are in power. The second such personality caught in a bizarre dilemma is Aamir Khan. Now, he may be in more than one soup already. The first soup is more profoundly called as the Oscars. While his movie, *Rang de Basanti* gets selected to represent India at the Oscars, this view hasn't exactly echoed in the movie circles in India. With *Gandhigiri* being the latest phenomenon to hit the streets, its actually cool to see Gandhi with his stick upstaging the cool over aged gel laden college brats enacting the violent freedom fighters. Aamir even has the nerve to qualify *RDB* as a movie which projects non-violence. Puhleez if you think the Indian audience is insensitive then maybe you are correct but if you think its plain stupid, then think again. The way Vidhu Vinod Chopra has canvassed *Gandhigiri* in his *Lage Raho Munnabhai* is truly inspiring and deserves at least a representation at the Oscars. This is just one of the ship wrecks he's trying to salvage. The other being the soft drinks major Coca Cola. The latter has even come out with an ad campaign with Aamir testing bottles of the same. Hilarious if you ask me. Now, Aamir has really done it. He has indeed proved that the Indian audience is dim-witted enough to appreciate his screen work. Kaleidoscope recommends, Mr. Aamir to stick to the movies. Preferably get hold of Gowariker and try to remake *Lagaan* just for the heck of



it. It's getting too off beat for comfort you know. Last but certainly the least, if someone was at the height of being caught in the wrong job then it has to be Manmohan. Its funny when with all the loud people testing the acoustics of the parliament, he can still sit composed and look unbothered. Not many people in this chauvinist country would love to work under a woman. Manmohan has done that and that too very graciously. Let's say they look like a good team when they stand together on the podium. But don't call me a spoilsport when I question the longevity of such a relationship. Touch wood for India's sakes! The relationship has to stay if the good work (well somewhat...) needs to continue. Kaleidoscope recommends, we need a more vociferous PM come on Manmohan show some grit.

Kudos to all the three gentlemen who have done exceedingly well in the precarious situations they are in. Let's hope that me and Kaleidoscope do not have the unwelcome privilege of the same. However I have already had the privilege of writing the tenth issue of Kaleidoscope. I would also like to congratulate NIST for its ten years of excellence. Let's hope the partnership continues for years to come. Please forward all comments & suggestions to 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.

Career Corner

TCS Questions **Priyadarshini Panda, Alumni 2000-04 batch(now in Infosys)**

1. Javagal, who decided to go to weekend trip should not exceed 8 hours driving in a day. The average speed of forward journey is 40 miles/hr. Due to traffic on Sundays, the return journey's average speed is 30 m/h. How far he can select a picnic spot?
 a) 120 miles b) between 120 and 140 miles c) 160 miles

2. The total expense of a boarding house are partly fixed and partly variable with the number of boarders. The charge is Rs.70 per head when there are 25 boarders and Rs.60 when there are 50 boarders. Find the charge per head when there are 100 boarders.
 a) 65 b) 55 c) 50 d) 45

3. A car has run 10000 miles using 5 tyres interchangeably. To have a equal worn out by all tyres how many miles each tyre should have run.

(Ans: 1. 120 miles 2. 55 Rupees 3. 4000 miles/tyre)

Top 100 Electronics Companies in India

(Please see the previous issues for Rank 1-30)

Rank 31

SATYAM COMPUTER SERVICES LTD

Revenue : Rs 9790 mn Chairman : B. Ramalinga Raju
 Website : www.satyam.com
 Address : Floor 1, Mayfair Centr, S.P. Road, Secunderabad, 500003
 Fax : 040-27813166/27840058 ☎: 27843222

Rank 32

TATA INFOTECH LTD

Revenue : Rs 9670 mn Chairman : F.K. Kavarana
 Website : www.tatainfotech.com
 Address : Manish Commercial Centre, 216-A, Dr Annie Besant Road
 Worli, Mumbai 400030
 Fax : 022-56664333 ☎: 56664300

- Rank 33** **MAHINDRA-BRITISH TELECOM LTD (MBT)**
 Revenue : Rs 9130 mn Chairman : Anand G Mahindra
 Website : www.mahindrabt.com
 Address : Sharada Centre, Off Karve Road, Pune, Maharashtra
 Fax : 020-5424466 ☎: 4018100
- Rank 34** **TATA TELESERVIVECS (MAHARASTRA) LTD.**
 Revenue : Rs 8075 mn MD : Charles Antony
 Website : www.tataindicom.com
 Address : Ispat House, B.G . Kher Marg, Worli, Mumbai 400018
 Fax : 022-56605094 ☎: 56615445
- Rank 35** **POLARIS SOFTWARE LAB LTD**
 Revenue : Rs 7871 mn Chariman : Arun Jain
 Website : www.polaris.co.in
 Email : hemant.kumar@polaris.co.in
- Rank 36** **CMC LTD**
 Revenue : Rs 7757 mn MD & CEO : R. Ramanan
 Website : www.cmcltd.com
 Address : CMC Centre, Old Mumbai Highway, Gachibowli, Hyderabad 500019
 Fax : 022-26591046 ☎: 26591518
- Rank 37** **ELETRONICS CORPORATION OF INDIA LTD (ECIL)**
 Revenue : Rs 7710 mn CMD : G.P.Srivastava
 Website : www.ecil-india.co.in
 Address : ECIL Post, Hyderabad 500062
 Fax : 040-27122535 ☎: 27121055
- Rank 38** **MPHISIS BFL LTD**
 Revenue : Rs 7657 mn CMD : Jaithirth Rao
 Website : www.mphasis.com
 Address : 139/1, Aditya Comlex, Hosur Road, Koramangla, Bangalore 560095
 Fax : 25522719 ☎: 25522713
- Rank 39** **CELETRONIX INDIA PVT LTD**
 Revenue : Rs 7564 mn Chairman : M.L.Tandon
 Website : www.celetronix.com
 Address : Unit No. 9, SDF-1, SEEPZ, Special Economic Zone, Andheri(East),
 Mumbai 400096
 Fax : 022-28291176 ☎: 56425600
- Rank 40** **GLOBAL TELESYSTEMS LTD (GTL LTD)**
 Revenue : Rs 7564 mn CMD : Manoj Trodkar
 Website : www.gtllimited.com
 Address : 412, Janmabhoomi Chambers, 29, W.H. Marg, Ballard Estate, Mumbai
 400038
 Fax : 022-22619649 ☎: 22613010

Person of the Month

NISTe_News is very happy this month to announce some deserving names in its person of the month column. They are none but **Team Sankalp Members**. In fact the entire NIST family is proud of the members of *Team Sankalp* who have put their hard work in last two months for the successful completion of their annual Techno cultural festival SANKALP. The proud Team members of Sankalp 2006 are: “Rakesh Parida (President), Biswajit Mishra



(Secretary), M Leela Anand, Sabyasachi Misra, Shanti Swaroop, Mrutyunjay Dash, Rajiv Kumar, Anupam Bandopadhyay, Rakesh Patra, Kirti Ranjan Parida, Linkan Dash, Manas Mohapatra, D Arun Reddy, G Gayatri, Jayashree Mahapatra, Rakesh Kumar Gupta, Biswajeet Mohanty, Jagannath Swain, Srinivas Patra, Debal Kumar Chakraborty, Amrita Rajguru, Archana Mishra, S Sunita Kumari, Padmika Samantray, Chinmayanand Choudhury,

Biplab Panda, Abhitabya Patnayak, J Sandeep, Swadesh Ranjan Mishra, Vikash Pradhan, Debasis Sahu, Y. Umakanta, Sourav Sagar Mishra, Sidhartha Buda, Kamakhya Prasad Baditya, Rashmi Ranjan Swain, Jyoti Prakash Dash, Soumya Ranjan Bhuyan, Kamlesh Prasad, Bishal Mandal, M. P. T. Gomes, Sashank Sekhar Singh, D Srinivas, Upasana Panda, Rakesh Roshan Acharya, Kumari Madhulika, Monali Mishra, Indira Priyadarshini, Jagadananda Padhi, Shradha Mohapatra, Rashmi Rekha Nanda, Pragyan Parinita Mohanty, Abhinash Dash, Kunal Singh, P. Prabhat Raja, Asutosh Panigrahi, Swagatika Panda, Sonali Mishra, S. Krishna Priya. The ISTE faculty Advisor Mr Satyabrata Das is also proud with other NISTians for the active involvement and success of the *Team Sankalp*.



Photograph of the Month

Subham

(The Youngest NISTian)

Date of Birth: 30 - 09 - 2006

The next issue will be published on November 15, 2006. Send your message on or before November 10, 2006 to niste_News@yahoo.com. Thanks.

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Sankalp 2006 – an excellent job done by Team Sankalp

Once a year in October, the entire NIST family gears up to celebrate the homecoming technical, business & cultural excellence culminating in Sankalp. Sankalp for the year of 2006 was celebrated by the ISTE



Students' Chapter, NIST on October 13-15. As every year the preparations and planning for an event of this magnitude required about 2 months. But it was



only the closing ceremony, when the feeling of Sankalp truly sank in. Sankalp 2006 was based on the theme of *Inspiration* which was well reflected in its caption *Get*

Inspired. Along with catchy brochures & attractive posters it truly looked like a world class event. Sankalp 2006 started with the presence of Chief Guest Prof. G. C. Patro enthraling the crowd with his outstanding speech which actually began with a *sloka* and later he explained the meaning of the entire *sloka*. The evening started with a bang with *Banegi Apni Baat* (Youth Discussion Forum). NIST were the proud winners of *Olé*, the inter collegiate dance competition. The night was all for the intellects to work with their C skills in *Charizma*. The second day buzzed with a host of technical events such as *Techquest*, *Technovista*, *Robostormz* etc. However the night belonged to a single persona. Amit Sana enthralled one and all by his scintillating performance for over 3 hours. He along with his troupe which consisted of a dance group and the lady singer *Monalisa* were creating history at NIST. Mr. Sana was good enough to even



compliment the *Team Sankalp* for the level of organization & the discipline of the entire NIST crowd. The third day woke up to the finals of *Daksh*, *'A' Seek*, *Tycoon* & *Robostormz*. The highlight of the day was the superlative performance by our very own Dr. Ravi P. Reddy in *Dronacharya* - the Faculty Teaching Aid presentations. The event culminated with a Prize distribution ceremony presided over by Major Gen. Ram Pratap, VSM, Commandant, Army AD College, Goplapur. Silicon Institute of Technology, Bhubaneswar was the proud recipients of the Sankalp Champions Trophy. The event ended with a moving speech by Dr. Reddy. The entire

Team Sankalp thanks each and everyone who is associated with Sankalp – 2006.

