

Message from the Director

The big news and the happiest news in a long time for all of us is the Research Grant of Rs.



1.00 Crore received by our Institute from the Department of Science & Technology (DST), Government of India, New Delhi for setting up two ultra-modern laboratories in the area of VLSI Design and Advanced Microwave Communications under the FIST program. To our knowledge this is one the largest grants received by any engineering Institute of Orissa. We have planned to bring in the latest in VLSI Design including software (Synopsis, Cadence, Mentor Graphics) and workstation hardware. On the Microwave side, we plan

to have antenna fabrication, testing, design software and student tools. Also in the pipeline is a small scale VLSI chip fabrication facility for our Institute. This is the first major research coup of our Institute and full marks are due to both Dr. Ajit K Panda, Dean and Dr. Amalendu Patnaik, R & D Coordinator. Both incidentally are BOYSCAST fellows and are authors of numerous seminal papers. I hope this success is a catalyst for our other faculty members to improve their research work and get funding.

The Institute has recently introduced the ONLINE EXAMINATION system for the first time anywhere under the BPUT system. The online examination has been implemented quite successfully for all batches for their internal tests. The ease of use and immediate feedback in terms of performance make it a very useful tool. Moreover, faculty have found the online examination system a challenge since they have provide tougher, more analytical oriented questions and in order to make it secure have to design six sets of separate question papers. The entire online examination system was developed by our software wing the NIST Technology Consultancy Services within a record two weeks from start to implementation. I encourage *students feedback* on the online examination system and its possible use throughout the BPUT system. I wish the students great success in the ensuing University semester examinations.

November 15, 2006

Sangram Mudali

Message from the Editor

In the year 2003, 2004 and 2005, the number of successful GATE students of NIST were 10, 8 and 7 respectively. In the year 2006, as per my record, it is not more than 2. Similar scenario is in the case of TOFEL, GRE, CAT or GMAT. This indicates that our students are not interested or motivated for higher studies, either in India or abroad even if some of them are uniquely deserving. We will probably see similar statistics from other good engineering institutes. But the scenario is different in the best institutes like IIT's and some of the NITs, where the number of GATE qualifiers is increasing every year. In fact, the total number of successful students in GATE, TOFEL, GRE, CAT or GMAT in the country is not decreasing, rather increasing. The reason is very clear. Most of the students of average or good institutes are fighting to get a job in some known or unknown companies whereas the IITians know that they will get a job on any day of their choice, but they will have to fight hard for an excellent post graduate education and hence they work hard for an excellent GATE/TOFEL/GRE/CAT or GMAT score. A post graduate degree from some of the top universities in the world or from India is worth its weight in gold – this realization comes sooner or later to all the bright and mature students. It is very important for our brilliant students to get a higher degree from a reputed institute of India or abroad and to take the leadership either in academia or industry.

November 15, 2006

Partha S Mallick

Rs. 1.00 Crore Research Grant for NIST

The proposal of Department of Electronics and Communication Engineering, NIST to the Department of Science and Technology(DST), Govt. of India for financial support under its FIST program has been accepted and recommended by the FIST Advisory Board(FISTAB). DST has agreed to support Rs. 1.00 crore for the R & D work in our VLSI and Microwave Communication Lab. This is the maximum grant given by the Department of Science and Technology to any engineering college of the state. NIST faculty members have already received many Govt. funds from DST, AICTE for research in the area of VLSI, Microwave Communication, Nanotechnology, Technopreneurship etc. Enjoy NISTians!

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

B.Tech(2002 – 2006 batch)

1	Avantika Palai	CTS, Chennai
2	Ipsita Panigrahy	CTS, Chennai
3	Abhishek Shekher Choudhury	Sanata Software, Bangalore
4	Sujit Samantray	Sanata Software, Bangalore
5	SucharitaDas	IBM, Bangalore
6	Shibasis Behera	TCS, Kolkata
7	Jubanswa Mishra	TCS, Kolkata
8	Avinash Sadangi	Infosys, Bangalore
9	Jeevan Jyoti Panda	Adya System, New Delhi
10	Shaikh Mustaque Ali	Adya System, New Delhi

NIST Dean at ICTP, Trieste, Italy

Prof Ajit K Panda, Dean of NIST, left India on October 31, 2006 on an academic assignment at the International Centre for Theoretical Physics (ICTP), Trieste, Italy. He will be working in the division of Microelectronics of ICTP, Italy. Prof Ajit Panda is one of the Visiting Research Fellows of the centre, Trieste, Italy. Earlier, he visited ICTP many times for various R & D activities. Dr Panda is one of the BOYSCAST fellows of NIST. He did his post doctorate from the University of Michigan, USA.



News Corner

Winners of Web Designing Projects

We congratulate the winners of Web designing project contest 2006. The contest was held at NIST Lecture Hall Complex recently in presence of esteemed judges. The panel of judges declared the name of **Swatika Samantray, Ipshita Sahu** and **Abhijeet Palo** for the first prize, **Rohit Kumar, Suash Kumar Baidya** for the 2nd prize and **Anup Kumar Subudhi, Ashish Kumar Mishra** for the 3rd prize. The consolation prizes were also given for this tough competition. The winners are **Gourisankar Rananayak, Abinash Kumar Khamari, Sangamitra Sahu, Ruchi, Lovelina Subudhi, Neha Singh**. The prize money was distributed by our Director Prof. Sangram Mudali.

Invited Lecture by NIST Faculty

NIST faculty and the Course Coordinator of B.Tech, **Prof Arun Kumar Padhy** was invited by Sambalpur University as a resource person for the refresher course on *Advanced Materials and Molecular Electronics*. He has given his lectures on 15th and 16th of November,



2006 at Sambalpur University where the participants are the faculty members of various institutes and Universities of Orissa. Prof Padhy is organizing a Conference of Orissa Chemical Society at NIST on *Molecular Electronics* on December 16-17, 2006.

NISTians Success at IT Olympiad-'06

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

IBM Workshop

The IBM Workshop on **DB2** was held on October 30 and October 31, 2006 at NIST campus. Expert from IBM Mr. Soumya Sankar Dutta delivered his valuable lectures and also shown live demonstration on DB2 for the two days. **Mr Debanand Kanhar**, Faculty of Computer Science and Engineering department coordinated the successful program.

Conference/Workshop attended

NIST faculty **Mr Rabindra K Shial** and **Mr Satyabrata Dash** of Computer Science and Engineering Department attended a three day workshop at Silicon Institute of Technology, Bhubaneswar on November 11-13, 2006. The workshop was on *Advanced Computer Architecture* where many distinguished computer scientists delivered their talk.

NIST faculty **Mr B Balaram** attended a Workshop on *Managing the future* organized by the All India Management Association. The Workshop was held at Pragati Maidan, New Delhi on October 6-7, 2006. It was a two day convention where internationally renowned management personalities share their vision for tomorrow.

POSCO Fellowship 2006

Sambit Sabat of 7th Semester ECE and Chinmayee Panigrahy of 5th Semester ECE got the POSCO Fellowship 2006. POSCO fellowship was initiated by the South Korea based steel manufacturing company named *Pohang Steel Company* which is going to be started soon at Paradeep, Orissa. Congratulations to Sambit and Chinmayee.

Seminar on Careers in IT Industry

A seminar on "Careers in IT Industry-A Requirement Analysis" was held at NIST Auditorium recently. The seminar talk was delivered by the senior executives of *High Octane*, New Delhi. NIST staff, faculty members and students attended the seminar which was successfully organized by the NIST Pre-Placement Coordinator Mr Sudhir Panigrahi.

The Jewel in the Crown

She is **Suprabha Muni**, CSE, 3rd Year who got the first prize for the best technical essay on "Role of engineers in natural disaster mitigation and



management". The contest was organized by the Institution of Engineers (India), Berhampur Centre, Orissa. The cash prize and

certificate was given by Sri Chandra Shekhar Sahu, Honourable Minister of Rural Development on 39th Engineer's day i.e., on September 15, 2006 at Saheed Laxman Naik Community Hall, Berhampur. The technical paper was also published in the Tech Souvenir (No. 2, 2006). NISTians are proud of her achievement and expecting many such good news in future.

Pre-Placement Training - 2006

NIST provides Pre-Placement Training to the students of BTech, MTech, MCA and MBA. This training helps the students to prepare themselves for future campus recruitments. This year the first phase of the Training Program was conducted by the external experts of TIME and CAREER LAUNCHER, Bhubaneswar which was completed recently. NIST Pre-Placement Training Coordinator Mr Sudhir Panigrahi coordinated the program.

NISTians welcome you...

We welcome **Dr Arun Kumar Mahapatro**, who joined in the department of Humanities. He has 34 years of teaching experience in Khallikote Autonomous college under Berhampur University. During his long



teaching experience he supervised 3 PhD theses, 4 M.Phil theses and many other PG projects. Before joining NIST, Dr Mahapatro was working as the Reader and Head of the Commerce department of Khalikote college. He has already published 7 research papers in various reputed journals.

We welcome **Mr. Lokanath Tripathy** who joined as a senior faculty in the department of Electrical and Electronics Engineering. Mr



Tripathy has more than 13 years of experience in teaching and in various reputed industries. He is a B.Tech from IGIT, Sarang and MS from Indian Institute of Science (IISc), Bangalore. Mr. Loknath Tripathy has expertise in the area of Power Systems and Control.

We welcome **Mr Amrut Phalguni Mohanty** who joined us on October 9, 2006 as a faculty in the department of Technical Communications (English). Mr Amrut is an M.A and M. Phil in English from Ravenshaw (Autonomous) College, Cuttack with his thesis on D.H. Lawrence's 'Sons and Lovers'. He worked



for three years at RIT, Berhampur, Orissa as a lecturer in the English department. He is currently working on formation of a English Literary and Dramatics Society in NIST.

Welcome to **Ms. Tissen Thomas** who joined us on September 13, 2006 in the department of English, **Mr. Bhabani Shankar Gouda** who joined us on September 18, 2006 and **Ms. Usha Rani Barik** who joined us on September 13, 2006 in the department of Electrical Engineering.

Welcome **Ms. Mamata Dash** who joined us on September, 2006 as lab supervisor in our Communication Lab, **Mr. Umesh Chandra Swain** who joined us on October 10, 2006 as lab Supervisor in C lab and **Ms Rashmi Rekha Satapathy** who joined us on October 10, 2006 as Lab supervisor in Electrical lab.

Wish you all an excellent career at NIST

Letter from Sri Shrirom Dalal, Regional Officer, The All India Council for Technical Education(AICTE), New Delhi.

To

Sh. Sangram Mudali
Director

National Institute of Science & Technology
Pallur Hills, Berhampur-761 008, Orissa

NWRO/

Dated:-11.09.06

Subject: Invitation

Sir,

I am greatly thankful to you for sending the news letter "NIST e-news". I also congratulate you for successful Completion of 10 glorious years of the existence of the institute. Thanking you. **Yours Sincerely, Shrirom Dalal**

Everyone makes and carries within him his own "heaven" or "hell", and you don't need to die to go there.
- Luz Estela Roza De Zubillaga

Journals and Magazines at NIST

Sarita Mudali, Staff, NIST Library

The NIST library is equipped with 41 different renowned journals and 47 popular technical and non technical magazines. Students, faculty and staff members are utilizing this facility provided by NIST. Here is the list of Journals and Magazines available at NIST library:

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|---|--|
| 1. Journal of Light Wave Technologies | 2. Indian Journal of Chemical Technology |
| 3. Indian Journal of Experimental Biology | 4. Indian Journal of Physics |
| 5. IEEE Transactions on VLSI Systems | 6. IEEE Transactions on Electron Devices |
| 7. IEEE Transactions on Technical Review | 8. IEEE Transactions on Computers |
| 9. IEEE Transactions on Microwave Theory and Techniques | |
| 10. IEEE Transactions on Information Theory | 11. IEEE Transactions on Signal Processing |
| 12. IEEE Transactions on Power Systems | 13. Scientific American |
| 14. C/C++ Users Journal | 15. IEEE Transactions on Computer Aided System. |
| 16. IEEE Transactions on Signal Processing | 17. Far Eastern Economic Review |
| 18. IEEE Journal of Solid State Device | 19. IEEE Sensor Journal |
| 20. IEEE Power & Energy | 21. IEEE Control Systems |
| 22. IEEE Potentials | 23. IEEE Circuits and Systems |
| 24. IEEE Spectrum | 25. IEEE Communication |
| 26. IEEE Wireless Communication | 27. LE (Lab. Expts) – A Journal in Lab. Experiments |
| 28. Forbes Asia | 29. Electrical Engineering Update |
| 30. Dr. Dobb's Journals | 31. IEEE Transactions on Power Electronics |
| 32. Technology Review | 33. IEEE Transactions on Instrumentation and Measurement |
| 34. Science | 35. AIMA News |
| 36. Engineering Advances | 37. Electron Device Letters |
| 38. Advanc'edge MBA | 39. Harvard Business Review |
| 40. Vikalpa(The Foundation on Decision Maker). | 41. Siddhant (A Journal of Decision Making) |

and, the magazines are:

- | | | |
|----------------------------------|-----------------------------|---------------------------------------|
| 1. Linux for You | 2. Data Quest | 3. PC Quest |
| 4. PC World | 5. Developer IQ | 6. Animation Today |
| 7. CHIP | 8. Electronics for You | 9. Information Technology |
| 10. Science Reporter | 11. Admission News | 12. Electrical India |
| 13. Yoga International | 14. Electronics Maker | 15. Elektron Electronics |
| 16. 4Ps Business and Marketing | 17. Business and Management | 18. Business Economy |
| 19. Business India | 20. Business Today | 21. Business World |
| 22. Business Week | 23. Indian Management | 24. News Week |
| 25. Down To Earth | 26. Chronicle | 27. Just Careers |
| 28. Career Economy | 29. Chanakya | 30. Civil Service Today |
| 31. India Today | 32. Outlook | 33. Time |
| 34. Front Line | 35. The Week | 36. Environment Science & Engineering |
| 37. Renewable Energy Akshay Urja | 38. News Panorama | 39. Master in Current Affairs |
| 40. Competition Success Review | 41. Competition Refresher | 42. The Competition Master |
| 43. Pratiyogita Kiran | 44. Sports Today | 45. Cricket Today |
| 46. National Geographic | 47. Smart Techie. | |

Do you know it?

Researchers at IBM's India Research Laboratory (IRL) on Thursday announced that they have developed a web-based, interactive language technology to help people who speak English as a second language to improve their speaking skills. The technology evaluates grammar, pronunciation, comprehension and other spoken-language skills, and provides detailed scores for each category. It uses specially-adapted speech recognition software. It has broad applicability for individuals, as well as in schools and businesses.

NIST Musical Society Rocks

Sankalp'06 witnessed the success of NIST Musical Society (NMS), the first of its kind in NIST which added colour and grandeur to Sankalp'06 celebrations. The scintillating



Khajana Deepti, 5th Semester

performances of the society members enthralled the audience while "Gayatri Mantra" set an aura of devotion, "Teri Deewani" by Rajshree added a Soothing tinge to the evening. "Mehboob mere" by Deepti and Swati and "Yeh mera dil" by Madhulika set everyone's feet tapping. The highlight of the show was "Sankalp" theme song performance by Amit Das. The instrumental performance by Satyakam, Prashant, Pranab, Sumit and Ramkumar invoked a rocking response from the audience.

Sumit and Ramkumar invoked a rocking response from the audience.

All the performance of the members of NIST's first ever musical society was a grand success. This was possible with the wholehearted cooperation and encouragement of the faculty advisor **Mr. Ajay Rath**, Students Activity Coordinator **Mr. Vinay Das** and Administrative Officer **Mr. Suresh Patnaik** and the dedicated efforts of the members.

Student's Corner Inspiration.....

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

**From small things scattered around;
Those which glow and having sound;
All the mistakes giving birth to
creation;
These're some things, which give
inspiration!!

Some things, which are not perfect;
Some things which most of us neglect;
Only few of us have that vision;
Failures become success due to that
inspiration!!**

**Sometimes words and sometimes
silence;
Sometimes peace an sometimes
violence;
Just unpredictable and beyond
imagination;**

**Whatever it may be, it's sheer
inspiration!!

When there seems no beginning;
Towards the end steps start
faltering;
It's the driving force, the motivation;
Of course it's the much-sought
inspiration!!**

**The undeciphered logic behind things
done;
With it everything, without it none;
From the start, throughout the
evolution;
Its always there, that spark of
inspiration!!**

It's about Dalpatbhai Patel - a successful Indian in USA

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

Dalpatbhai Patel could have been a successful engineer in the US, led a contented life and sent enough money to his family back home in Malekpore, a little village near Bardoli, Gujrat. But this schoolteacher's son had set his goals higher. When he bought his first motel in the US in 1970, he began a virtual gold rush that has seen motels-known as Potels in the American lexicon-mushrooming.

Over three-and-a-half decades later, the Potel phenomenon has left the world gasping. Gujaratis, mainly Patels, now own 21,000 of the 53,000 hotels and motels in the United States. It makes for a staggering 42% of the US hospitality market, with a combined worth of \$40 billion. Most Gujarati hoteliers say times have changed and top US chains are noticing this success. Asian American Hotel Owners Association, which has 9,000 members (90% of them Gujaratis), says Indian-American hoteliers pay \$700 million in taxes every year and create a million jobs. Upper-grade chains like Marriott, Hilton and Starwood are now more open to franchising their hotels to Gujaratis.

The Patel brothers, Maganbhai and Dalpatbhai, who share the credit of being the first Indians to buy a motel in the US. **From starting off their venture based on Gandhian principles of honesty, righteousness and truth, and promoting ideals of compassion and brotherly love amongst Indians**, the duo went on to help everyone interested in learning the ropes of the business. Now, based in Bordentown, Manfield township, New Jersey, the Patels hail from Malekpore village near Bardoli where their father Chhotubhai, a school teacher, was a member of Sardar Patel's 'tukdi number paanch'.

"Our father taught us the art of living a complete life. Good education was part of it. Despite limited resources, he managed to send us to Vadodara for a bachelors, and then to the US for our masters in engineering, in the early 60s," says Dalpatbhai, 67. While doing odd jobs in California during vacation, friends who were hotel-owners suggested to him that he should buy a motel. "It seemed a good idea since we could bring our family too, to join us. We bought one on July 1,1970 and in a matter of one-and-half-years, bought our second hotel and paid up our debts in three years," he says. Their success drew curious friends and relatives to them and soon elder brother Maganbhai, 75, turned realtor and helped others develop the business by sharing his knowledge, right from beginning the venture, to dealing with government agencies. Challenges were many but Patel's learnt to overcome them.

We were foreigners then and had a language barrier. We had to start from scratch. The second generation is at an advantage," says Dalpatbhai. Despite their success, with the entire family of six siblings owning over 60 motels, the Patels still follow a simple lifestyle, as promoted by Gandhi. "We saw many Indians getting Americanised. But all our 23 children and 42 grand-children are vegetarians and teetotalers. We still grow our vegetables in kitchen gardens and continue with the joint family tradition," says Dalpatbhai. His good reputation even earned him a term of Mayorship in 1999-2000, making him the first Gujarati mayor in the US.

Alumni Page

Interview

(Here is an Interview of Samikhya Dash, M.Tech 2003 batch, working in IBM India Limited, Kolkata)

Hi Vijaylaxmi, My best wishes. Here is my Interview – **Samikhya**.

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

Samikhya: I am Samikhya Dash, M.Tech student in ECE of 2003-2005 batch. Presently working with IBM India Pvt Ltd at kolkata as an Associate System Engineer since August 2005. My hobbies are reading good books, news paper and collecting quotations. My favorite one is, *"The most important thing to success is the self belief that you can succeed "*. I've realized its significance.



Vijaylaxmi: *Would you pls. share some of your NIST experiences*

Samikhya: It would be my pleasure to share those unique days. I still miss the valuable and inspiring speech of Director sir, Dr. Reddy, the never-say-die sprit of Panda sir and of course the ultimate guidance of Partha sir for all. The morning 7am to 5pm classes, work shop, the vibrant waves, innovative Sankalp, nothing can be forgotten. It really feels great to go to those flash back days while answering your question.

Vijaylaxmi: *Please tell about present job*

Samikhya: Presently I am in to SAP Net weaver technology. My Project name is Electrabel which is a major power generation & distribution company in Europe. Approx. 2100 field service persons involved in providing new connections & maintenance of electricity and gas will be connected through their tablet PC's to SAP back end server and work allocations from back office and work updations & feed back from field will be exchanged between back office server and tablet PC's via MI infrastructure, after successful Implementation of the project. SAP Mobile Infrastructure (MI) is a Net weaver component to support web enabled applications. So my work involves to make communication between SAP system to a Web server through HTTP. We are using Advanced Business Application Programming (ABAP) which is a 4GL, Business Server Pages(BSP),Java Server Pages(JSP) and also JAVA. I am handling the ABAP, BSPs. Prior to this project I was in a project titled "ProQuest" based on telecomm business. My main work there was on UNIX, C & Perl.

Vijaylaxmi: *Is NIST provide wit proper grooming so as to face the future challenges?*

Samikhya: Definitely yes! The kind of education and guidance we get here is really unique. We get chance to participate in different conferences, seminars to broaden our horizon. Life here is something more than just being bookish. It is well structured, well nurtured. I am very much thankful for the management for creating such a lively yet inspiring atmosphere.

Vijaylaxmi: *Any suggestion for your juniors*

Samikhya: There is never dearth of opportunity for the right person. So just be yourself, try to learn as much as possible new things of course making the basic foundation strong i.e. the analytical and reasoning skills and trust your dreams.

Vijaylaxmi: *How did you reach here*

Samikhya: Today I am here just because of faith on myself and my dreams. I also owe my gratitude to all the NIST family for keeping faith in me to send me to IIT, Kharagpur to do my M.Tech project "Design of Turbo Product Codes" under Prof. Saswat Chakrabarti, which was a major turning point of my life. It gave me a chance to think, analyze and combine programming logic with technology .The project was a success and acclaimed by Profs there. I got in to IBM through that project experience. I have completed 1 year in IBM this August and now moved to SAP technology from UNIX just to know another new technology. Hard work & determination will definitely make you reach your goal.

From Mailbox

To: ravipreddy@yahoo.com

Subject: Mohua here Sir

From: mohua.x.pradhan@gsk.com

Date: Tue, 7 Nov 2006 11:08:11 +0000

Hello Sir, Please accept my kind regards. I am sorry for not being in contact for so long, as I was bit busy with my project and coming to onsite and the visa processing, etc. I am in London for a short while for having knowledge transfer from client (GSK) and would be back again in December. I always remember and miss my golden days at NIST, being first batch of MCA and always you by our side for any kind of help and encouragement. By your inspiration I had done the OCA paper and for that I got selected for this project, that being an extra point in my favour. I work in data warehousing in Oracle express and OFA (Oracle Financial Analyzer) and mine is a support project. I am enjoying my work here as I have to deal with all kinds of challenges in this tool. Hope to hear from you soon, Sir with some good and new news about NIST. Thanks & Regards, **Mohua Pradhan, GSK BizOps IT ASM, int - x711- 8318, ext- 44 20 8966 8318.**

From: h2006060@bits-pilani.ac.in

To: reza@www.nist.edu

Sent: Sat, 21 Oct 2006 20:40:25 -0700

Subject: Hello

Sir, Happy Diwali. This is Prasanna from BITS, Pilani. The load is so heavy that I could not mail you. Sorry for that. You will be happy to know that I also got the sponsorship from Philips Semiconductor. I am very much thankful to you for your kind help and advice. I am also thankful to Srinivasu Sir and Kiran Sir. Actually I do't have their mail ID. So if you ever get a chance please convey my message. I am very much interested in patents and want to put my career in that field. If you are working for anything related to patents please mail me. Thank you and regards. **Prasanna Kumar Mishra, EIE, 2001-2005 Batch.**

Future Technology

Smart Pill

Now patients will not have to undergo procedures like endoscopy for the diagnosis of gastroparesis. A company called Smartpill has developed a pill with wireless sensors that can monitor abnormalities in the patient's body from within. The only thing the patient has to do is swallow it. The pill looks like a vitamin pill. As it travels through the gastrointestinal tract, its radio transmitter sends information about the time it takes, acidity and pressure levels. The information is then sent to a receiver worn by the patient. The level of acidity helps the physician to determine when the capsule enters and levels the stomach. The disposable capsule gets excreted from the body in a couple of days and the patient needs to return the receiver to the physician for analysis. The pill costs \$500, and the entire system, including a docking station and software, costs \$20,000.

Revolutionary battery system for Laptops

Tired of laptop battery run-outs? Valence can help you out. Its new technology, known as the N-Charge power system, offers users up to ten hours of battery runtime with the safety provided by Valence's patented Saphion phosphate technology. Valence batteries are made of phosphate-based cathode material, unlike the traditional cobalt-oxide lithium-ion. Phosphates are stable in overcharge or short-circuit conditions and can withstand high temperatures. By using Saphion technology, Valence batteries are unlikely to be subject to thermal runaway that can cause fire.

Another INSAT satellite?

The union cabinet of India has given its approval for undertaking the design, development and launch of GSAT-8/INAST-4G spacecraft. The GSAT-8/INSAT-4G satellite, which will augment the INSAT system capacity with 18 Ku-band high-power transponders and a navigation payload, will considerably improve the much needed high-power Ku-band capacity to meet the requirements of domestic direct-to-home (DTH) TV transmissions, VSAT and computer-to-computer connectivity, and redundancy to the navigation payload.

Career Corner

Extract of Mr. Narayana Murthy's Speech

Sent by Mrs Geetika Mudali, Placement Director, NIST

I know people who work 12 hours a day, six days a week, or more. Some people do so because of a work emergency where the long hours are only temporary. Other people I know have put in these hours for years. I don't know if they are working all these hours, but I do know they are in the office this long. Others put in long office hours because they are addicted to the workplace.

Whatever the reason for putting in overtime, working long hours over the long term is harmful to the person and to the organization. There are things managers can do to change this for everyone's benefit. Being in the office long hours, over long periods of time, makes way for potential errors. My colleagues who are in the office long hours frequently make mistakes caused by fatigue.

Correcting these mistakes requires their time as well as the time and energy of others. I have seen people work Tuesday through Friday to correct mistakes made after 5 PM on Monday. Another problem is that people who are in the office long hours are not pleasant in the company. They often complain about other people (who aren't working as hard); they are irritable, or cranky, or even angry. Other people avoid them. Such behaviour poses problems, especially in an area like IT, where work goes much better when people work together instead of avoiding one another. As managers, there are things we can do to help people leave the office. First and foremost is to set the example and go home ourselves. I work with a manager who chides people for working long hours. His words quickly lose their meaning when he sends these chiding group e-mails with a time-stamp of 2 AM, Sunday.

Second is to encourage people to put some balance in their lives. For instance, Extract of Mr. Narayana Murthy's Speech during Mentor session here is a guideline I find helpful:

1. Wake up, eat a good breakfast, and go to work.
2. Work hard and smart for eight or nine hours.
3. Go home.
4. Read the comics, watch a funny movie, dig in the dirt, play with your kids, etc.
5. Eat well and sleep well.

This is called recreating. Doing steps 1, 3, 4, and 5 enable step 2. Working regular hours and recreating daily are simple concepts. They are hard for some of us because that requires personal change. They are possible since we all have the power to choose to do them. In considering the issue of overtime, I am reminded of my oldest son when he was a toddler. If people were visiting the apartment, he would not fall asleep no matter how long the visit, and no matter what time of day it was. He would fight off sleep until the visitors left. It was as if he was afraid that he would miss something. Once our visitors left, he would go to sleep. By this time, however, he was over tired and would scream through half the night with nightmares. He, my wife, and I, all paid the price for his fear of missing out. Perhaps some people put in such long hours because they don't want to miss anything when they leave the office. The trouble with this is that events will never stop happening. That is life --things happen 24 hours a day. Allowing for little rest is not ultimately practical. So, take a nap. Things will happen while you're asleep, but you will have the energy to catch up when you wake.

Competition is a by-product of productive work, not its goal. A creative man is motivated by the desire to achieve, not by the desire to beat others

- Ayn Rand

20th Annual Conference
of
Orissa Chemical Society
and
National Seminar
on
Molecular Electronics

Date: December 16-17, 2006

at

National Institute of Science and Technology
Palur Hills, Berhampur 761 008, Orissa, INDIA

Address for Correspondence

Prof A K Padhy

Course Coordinator(BTech)

National Institute of Science and Technology

Question of the Month

An institute should be judged by the quality of its products, viz., students. In a better institution, more students get success after completion of degree in the form of getting jobs, creating jobs, getting admission for higher studies etc., since these institutions have better infrastructure for quality education and research. On the other side, many institutions are having eye-catching buildings, keep names of some retired persons as Professors who visit the institutions twice or thrice a year but having an excellent R&D background. Showing these buildings and resume of these Professors many private engineering colleges of the country are now easily getting Deemed University status, since the govt. rules and regulations for getting this status are supporting them even if they don't have better success record of their products.

Do you think that the rules and regulations for getting Deemed University status should be restructured? If so, what should be the rules (list out the top ten). Please send your answers to enews@nist.edu or to a NISTe-News Representative.

Send your message to enews@nist.edu only

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KALEIDOSCOPE Rakesh Parida, Final Year B.Tech, Member, Team NISTe-News*I am always sorry when any language is lost, because languages are the pedigree of nations**- AE Housman 1859-1936 in Cambridge Review 1917*

Pretty foolish we would think, Mr. Housman is. The very reason that you can read what he is saying has been the primary patron of the demise of national languages. English today is the most popular language the world over. Anyone doubting the claim can very well look at the sheer number of nations incorporating English as their national language. So, Mr. Housman have all these nations embracing an alien language to forgo one of their own, lost their pedigree? Is English egging on the concept of a global village where national boundaries have been dissolved or has it been the culprit of depriving citizens of their national identity? The question is clear, **Have nations lost their pedigree with English? Kaleidoscope's View -**

English originated from the British Isles and now funnily enough there are 100 times as many people around the world as the number of English speakers in the Isles. In all these nations children have to compulsorily learn English as their first language, their native tongue being an option. English is the accepted way to do business but not the only way to. Well all that assures me that although we can all root for nationalism and the other factors those which make us proud of our nation, we have been silently strangling its very existence. Gone are the days when nations used to be identified by the languages they speak. But hey, just a second. Have you ever noticed the simple fact that the above statement holds water only in the case of the third world nations or the erstwhile British colonies? India has been independent since 1947, HA! Indians speak the queen's language all the more than before. Thanks to the Indian population machine, there could be more Indians speaking English than the rest of the world. Believe me that would be wonderful, only if 10% of those Indians could also speak Hindi. Isn't it strange that when the unwelcome visitors set foot in this country, it was called *Hindustan* and now it is just called India? If you dare ask a teenager from one of those up market schools in the metros about what's *Hindustan*, there should be a prompt reply that *it's some place in UP, I guess near Jumrutaleyia*. If that doesn't qualify as an identity crisis then I really don't know what does. Please, don't blame the colonial powers to wreck this havoc. I blame the then rulers of *Hindustan*, if only they could colonize England, we would have had the London cabbie doing a *Namaste* to us. May be language is more than a few words, may be it's the pride of one's homeland.

Kaleidoscope's Counterview:

I remember in the late 80's there were two types of publications which shared the book market. The first type constituted all the various types of literary works by leading authors around the world not just in English but in other languages too. The second type of publication was a singular piece of work which I should say has transformed the entire Indian nation. The series of publications entitled *Rapidex English Speaking Course*, proved not just revolutionary but also an eye opener. These books available in more than 10 Indian regional languages, endorsed by none other than Kapil Dev, were what I should call an awakening. So, if you want to still blame the Indians for their literary prowess, blame *Rapidex*. It is actually funny to see ignorant leaders all over the nation advocating the extermination of the English language. Isn't it the singular cause of all the economic development that you can boast of? The phenomenal growth of English in the nation is well reflected in the stupendous 8% growth of the Indian GDP. English is not the way to do business with the world, it is the **only** way to do so. Moreover, English hasn't caused the demise of the regional languages. The writing on the wall advocates survival of the fittest. Hence, if the local tongue can't evoke interest amongst its own people then does it really deserve to be the lingua franca of the entire nation? Not to worry, the number of hypocrites who advocate the usage of *Hindi* while educating their children about the benefits of English is slowly but surely dwindling. The way to the future is globalism and not nationalism. It's the harsh truth which even the stubborn China is promoting. If the dragon's awakened why shouldn't the elephant? However, English shouldn't be only revered for its commercial value. The greatest literary works from all around the globe exist in English. It is the language the world speaks. If you ask me then the answer is very candid, the way the world is converging, there is room for only one language. There cannot be two guesses to which language it is got to be. What is your say? Please mail to the author at rakesh1919@hotmail.com



Person of the Month

It is the continuous effort of every NISTian which has brought NIST to limelight. This issue of NISTe-News will focus on one such NISTian who has been giving dedicated

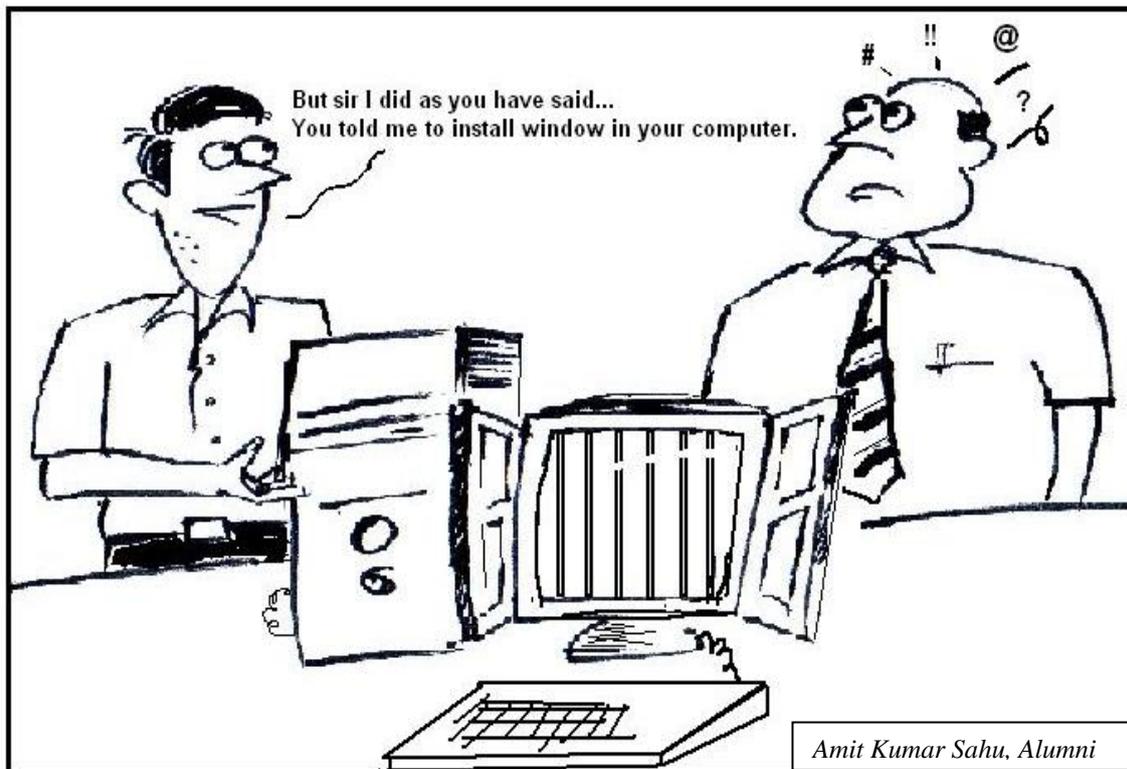


Mr Sameer Behera is receiving the Certificate of 10 years completion at NIST from the Director Prof. Sangram Mudali

service since the inception of the institution in 1996. He is **Mr Sameer Behera**, senior supervisor of the Physics Lab. He is the youngest son of Mrs. Motirani Behera and Late Sri Kartik Behera of Aling, Cuttack, Orissa. Mr Sameer Behera is also looking after Hostel -7 as its caretaker. He is the helping hand of NIST for many official activities. He did his secondary and higher secondary education from Janata Bidyapitha, Kusumpur and DGBK college, Cuttack. After that Mr Sameer Behera did his graduation from Berhampur University. He got married to Ms Kabita Dash on September 22, 2004 and is blessed with

one son, Phillip. His hobbies are - playing Table Tennis, Volleyball, reading magazines and working against student's ragging. He is one of us who feels NIST as home away from home and likes to spend time with students.

Cartoon of the Month



Amit Kumar Sahu, Alumni

10 Glorious Years of NIST 10 Glorious Years of NIST

Recollections of NIST



Inaugural function of NIST on August 19, 1996 at Berhampur University. Prof M Q Khan(VC, BU), Sri J B Patnaik(CM), Sri Niranjan Patnaik (Industry Minister), Prof Sangram Mudali (Director), Mrs. Geetika Mudali (Placement Director) on the dais.

Director (Prof Sangram Mudali) and his Team ready for the ground breaking ceremony of Lecture Hall Complex



Lecture Hall Complex at the initial stage...



Lecture Hall Complex is almost ready...so what to do next... (planning for Octagon?)



The first orientation day of NIST on 18th September, 1996.



National

Dy. Director (Prof Ravi P Reddy) delivering speech on the first orientation day

