



Message from the Director

This week we had a visitor from IIT, Kanpur: Prof Barun Banerjee. Prof Banerjee was my teacher who taught me Fluid Mechanics. This was his first visit and he was very happy to see the campus infrastructure and the academic rigour practised at NIST. We compared notes vis-a-vis IIT, Kanpur, and we identified areas of improvement in teaching, research and student activities. Meeting my teacher after a gap of so many years was a very memorable experience for me.

I am very happy to see that the Library and Internet Center are being utilized to the fullest extent till 9:00 pm. The discipline and the pin-drop silence was impressive. Do keep it up!! Today on the 15th of August let us remember the heroes that stood up to the might of British Empire: Jawaharlal Nehru, Subash Chandra Bose, Mahatma Gandhi, Sardar Vallabhai Patel, Shaheed Bhagat Singh, Lala Lajput Rai,...to name a few. On this day let us take pledge to work for a modern, vibrant India "where the head is held high, And the mind knows no fear"(Tagore). With best wishes on our 55th Independence Day. Jai Hind.

August 15, 2002 Sangram Mudali

Message from the Editor

Today I would like to recollect the words of Mr Sanjeeb Mishra, IAS, the District Collector of Ganjam who told to our students that DISCIPLINE is the first requirement for quality education. We appreciate him once again for his valuable word. Yes!! without discipline, no one can be successful. One must realize that DISCIPLINE starts from home itself. DISCIPLINE helps to control our innerself. Controlling one's innerself plays an important role to develop one's personality. Discipline guides one to be systematic, methodical and organized. The grand success of IIT's in India is their discipline in every sphere of their activity. NISTians are also made aware of the importance of DISCIPLINE from the very first day at NIST. NIST's motto is "To be a NISTian one has to be disciplined first". You must have come across in the last issue of NISTe- news that someone suggested NIST is the IIT of Orissa. I have received many mails supporting it. I have published one such mail in this issue. Hope all of you realize the value of DISCIPLINE and help yourself. Thanks to Mr. Sandeep Sahu and all who share and appreciate our vision.

I urge more literary contributions from our students to NISTe_News in form of short stories, poems, jokes, cartoons, etc. Please do WRITE.

In this issue, I am introducing a new column "Future Technology" to make all of us aware about the upcoming technologies and their applications. With best wishes on our 55th Independence Day.

August 15, 2002 Partha S Mallick

Letters to the Editor

- **From Alimpan Basu, CSE, 1st Year**

Sir, The NIST e-news seems to have a magical touch in it because in just few publications it has become a sensation among many students, thanks to the flawless & stupendous effort put in by the panel of advisors, the editor Dr Partha. S. Mallick and e-designer Mr Manas Ranjan Das. It would be really nice if there is one section on "Student Corner" and other section on the "Feedback" on E-News. The feedback, if published would itself be a confidence booster for students. Thanking you.

Reply from the Editor: Yes! Alimpan, the Student's Corner started from April issue and Feedbacks from this issue. Thanks.

- **From Manoranjan Mishra, REI Systems, USA, 1996 batch**

Sir, I think you do remember me. Really a nice effort - the NIST e-news. Thanks a lot for the great effort. At least this can keep us updated regarding the recent happenings at NIST.

- **From Mitrabinda Panda, NIST**

Sir, I have got the hard copy of the e-news just now. This is a marvelous effort from your side to make it more and more popular. I just could not thought of such a magazine which tells all the true stories happening around us inside the campus. I have seen u many times working for long hours and keeping urself busy in editing the articles, news etc. Thanks a lot for putting so much effort in making the magazine a grand success. Keep it up. All my best wishes are with u.. I think everyone must be eagerly waiting for the next issue as I am....

Dr Arun Kr Padhy - is now with us!!!



After the successful one year in USA, now Dr Padhy is again with us. He worked in the University of Denver, Colorado, USA for one year as a post doctoral fellow. He was with a strong research group headed by Prof. Andrew L Ternay, Jr. who is a distinguished person in his research area. Dr Padhy worked on the area of Synthesis of antimustard agents. His constant effort has resulted a research paper on Unsymmetric Disulfides. We are proud of you...

Evening Bus from campus

Evening buses are now available at 6:40PM and 9:00PM from campus. Library, Internet lab, Computer Center, Cafeteria are remaining open till 9:00PM. This is to facilitate students, staff and faculty for their regular project/research work and to enjoy the NIST Internet Service, NIST Tutorial Service and Student Counselling Service etc.. A large number of students are seen using the facility regularly.

NIST Welcomes.....

Dr Sushmita Datta



Welcome Dr Sushmita Datta.... Dr Datta joined us on August 3, 2002. She has a brilliant career throughout her entire academic life. After completing MSc (in Mathematics) at IIT Kanpur in 1995 with an excellent result, she took admission for the Ph.D degree of IIT, Kanpur in the same year. She continued her research work towards the Ph.D degree under the guidance of Professor RKS Rathore of IIT, Kanpur. The title of her research work was "On Segmentation in Magnetic Resonance Imaging". She worked in the Sanjoy Gandhi Post Graduate Institution of Medical Science(SGPGIMS), Lucknow for the part of her Ph.D research work. She has to his credit pioneering research work in the area of Magnetic Resonance Imaging. Her dedicated effort for research work has already resulted in 7 papers published in various reputed journals and conference proceedings. Her research interest is Digital Image Processing, Quantitative Magnetic Resonance Imaging". After the successful completion of Ph.D work at IIT Kanpur, she is now with us. We wish her all success in NIST...

From Dr Asutosh K Singh, Malaysia

*Mujhe dard bas itna raha
Quatil mera apna raha
har pal humare saath men
Chalta raha chalta raha
Main bhul kar na bhula saka
Mere saath jo kissa raha
Sab chhod karke chal diye
Us safar men tanha raha
Wo jane kaisi aag thi
Jis aag se jalta raha
Khun se lathpath hua
Khanjar bahat gehera raha*

Sunday Football at Neelachalnagar

Now Football has been added to the ongoing extracurricular activities at NIST. Faculty and Staff are getting the chance to enjoy the Sunday evening at Neelachalnagar, near NIST Community Center (NCC) by playing Football. It was started on July 28, 2002 and 14 of our staff and faculty played the inaugural match. All the staff and Faculty are welcome at 5:00PM....

YOGA at Girl's Hostel, Gopalpur

Now YOGA is in our Girl's hostel, near Gopalpur Sea-Beach. It was inaugurated on August 4, 2002, Sunday. Our Yoga instructor Miss Basanti Kumari Patro is taking the Yoga classes every Sunday morning from 8:30AM to 9:30AM.

NIST Tutorial Services (NTS) Basanta Kumar Dash, Coordinator, NTS

We are proud to announce the launch of an innovative and result-oriented scheme called the NIST Tutorial Services (NTS). Due to a variety of reasons many students are unable to adjust to the rapid pace in engineering education. This is more evident in the first two years. Due to such reason, they perform poorly in

the examinations, both internal and in University examinations and finally they lose the motivation to excel. Many parents put their children in outside coaching centers since their children need help in certain subjects. Based on the above facts and with our avowed aim of helping those students we have introduced the "NIST Tutorial Services". The aim of such a service is to help students learn a particular subject in which "academic weakness" is identified. The classes are conducted intensively and thoroughly in warm, comfortable and friendly atmosphere. This service is being provided "Free of Charges" to the students. We have provided this service to 2001 batch only. In due course of time this service will be provided to the students of other batches. The strength of the each class is not more than 25 students. Thanks to our Honourable Director Mr. Sangram Mudali for giving birth to a new concept and taking tremendous interest to launch this service. And also I am very much thankful to our Director for giving me the responsibility to carry out the noble unique idea. Also I am very thankful to all the students counsellors for their work as a team towards achieving the goal.

Research and Development

Research Papers

- R.K. Gupta, N. Husain, M.K. Kathuria, S. Datta, R.K.S. Rathore, M. Husain, Magnetization Transfer MR Imaging Correlation with Histopathology in Intracranial Tuberculomas, Clinical Radiology, 56, 656 - 663, 2001.

New Arrival: Software/Hardware

- Matlab version 6.1(Release 12.1) is now with us. Interested persons are requested to contact Dr Partha S Mallick to know about this newer version of Matlab.
- Touchscreen monitor (17") and associated software is now available for projects such as Information kiosks, Query Systems, etc. Interested person is requested to contact Dr Ravi P Reddy.

Friday Seminar Series

- Naveen T Vargheese of 8th Semester, CSE and Dr Partha S Mallick presented the seminar on August 02, 2002 at Lecture Hall Complex. The topic of the seminar was "Soliton Transmission Technology". The speakers explained the Solitons and their transmission technology in Optical Fiber Communication Engineering. Participation of Faculty members, interested students and their interaction made the seminar attractive. NIST Microcontroller and PLC group

NIST Microcontroller and PLC group

We are proud of having a strong Microcontroller and PLC group headed by Dr Sibmoy Dasgupta who is an ME and PhD from IISc, Bangalore. The other members of the group are Mr Abhiro Mukherjee who is an MS from France and Mr Bhawani Pattnaik who was one of our brilliant students of 1996 batch. Both Dr Dasgupta and Mr Mukherjee have long industrial experience in the area of Microcontroller and PLC in India and abroad. They have started a new course called "Recent Advances in Industrial Automation" comprising of "Microcontrollers, PLCs, Virtual Instrumentation and SCADA" for NIST students. The Microcontroller and PLC lab is now equipped with LabView and SCADA software. We wish them all success...

Seminar on Recent Advances in Industrial Automation

Dr S Dasgupta and Mr Abhro Mukherjee presented the seminar for two days, July 24 and July 25, 2002 at our Lecture Hall building. The speakers first gave an introductory talk on Microcontrollers, PLCs, Virtual Instrumentation, SCADA. Then they explained their technological aspects. They also talked about the recent advances, Indian and global scenario of these areas. NIST has introduced a new course on this area.

NISTians attended the workshop on Parallel Processing

Mr Susant Sahu and other four students of 1998 batch, Naveen T Vargheese, Ritwik Sanyal, G Prashant Kiran, Gopal Shah attended the workshop on PARALLEL PROCESSING at Utkal University from August 5, 2002 to August 9, 2002. The workshop presented by Professor LN Bhuyan of University of California, USA.

CONGRATS!! Chinmoy Kanti Pattanayak...

NISTians attended the workshop on Parallel Processing

Chinmoy Kanti Pattanayak, 3rd Sem. Computer Science & Engineering, presented a paper on March 23, 2002 at the National level technical paper presentation competition - 2002. The title of his paper was "Integrating Optical Technology into Today's Packet Switched Networks". The competition was organised by the department of Computer Science, Saurashtra University, Rajkot (Gujrat) and Amochisiddhi Education Society, Sangli (Maharashtra). Keep it up!!

If I can... Manas Panda, 1st Year

If I can help somebody as I pass along,

If I can cheer somebody with a word or a song,

If I can show somebody that he is travelling wrong,

Then my living shall not be in vain.

Jokes

Is there any time for study!!! Suman (CSE ,1st Year)

- One year!!! Its just only 365 days., Out of 365 days..
- 52 Sundays, which are completely for rest, leads to a balance of 313 days.
- Sleeping 8 hours per day for good health, means total 122 days. The balance is 191 days.
- 1 hour for daily physical exercise means 15 days. Balance is 176 days.
- 2 hours daily for taking food means breakfast, lunch, dinner etc, so another 30 days. Balance is now 146 days.
- 1 hour for social work since ultimately we are all social being. So 15 days, balance is 131 days.
- Summer holidays 50, when weather is very hot and no study at all, balance is 81days.

- For various exams., at least 35 days per year, balance is 46 days.
- Various festivals 25 days, balance is now 21 days
- Extra curricular activities 1 hr per day, so another 15 days, now balance is only 6 days
- For sickness, at least 3 days, balance is 3 days.
- Movies, personal functions at least 2 days, balance is 1 day.
- That 1 day is your birthday.
- Do we really have a single day for study??????

Technology at Work in NIST Dev Padhi

Since its inception our Institute has been a firm believer in the use of technology to make things simple to manage and administer. The case in point starts with our office. With only 5 people manning the office it is a wonder how a community of more than 1400 students, staff and faculty are able to utilize its services. The answer is the use of "IT enabled services" to automate most of the routine tasks and create a super-efficient Virtual Office. The virtual office is not physically located anywhere but it provides all the following features based on distributed responsibilities. The services provided by the Virtual Office are:

Computer Based Attendance Systems

Web-based Student Database system

Web based Student Academic Performance system

On-line Mess Management System

Intranet based E-mailing and File Sharing System

Network based Human Resources System

Computer Based Accounting

LAN based Group Meetings

In addition each faculty member, laboratory staff, office, etc., is equipped with a computer connected to the NIST NETWORK which makes it possible to share resources and speed up the workflow. It is not necessary to physically move from one place to another when the same work can be executed through the Network.

A shining example of our "Technology at Work" is the Library System. This is a multi-user Linux based Library Management System which has withstood the test of time. The system allows students to browse the books available in the Library as well as browse their own accounts

All the above mentioned products were fully developed by our own NIST Training & Consultancy (NTCS) team which deserves kudos from the entire Institute. The unbelievable but true story is the recently installed "Internet Lab Time Allocation System": it was developed and implemented within 24 hours by NTCS !!!

Alumni Page

From Mailbox:

From:

To:

Subject: Hello

Date: Sat, 20 Jul 2002

Hello Sir, I hope you must be fine. My classes are going on out here. We have a very hectic schedule and loaded with assignments, quizzes, case studies and presentations. Actually the schedule is almost like the last one month before the semesters in NIST. The classes are 70 mins so after attending the 100 mins classes at NIST it helps a lot while others find it boring and difficult. After being used to submitting assignments projects before deadlines at college here I find myself comfortable. The mid sems and end sems are lined up in the same way three days six papers and no preparation holidays. I remember a lot working at college while going through all these, loaded up with work of all subjects same out here. It becomes easy to coop up. But the subjects are totally different and have to think on totally different angles. Have to do a lot of analysis on cases. I am enjoying and doing well also though I have to do better. I hope things at college are fine. My regards to madam.Bhakti

General News

Completion of first SCS Meet with 2001 batch

From:

To:

Subject: Hello

Date: Sat, 20 Jul 2002

Hello Sir, I hope you must be fine. My classes are going on out here. We have a very hectic schedule and loaded with assignments, quizzes, case studies and presentations. Actually the schedule is almost like the last one month before the semesters in NIST. The classes are 70 mins so after attending the 100 mins classes at NIST it helps a lot while others find it boring and difficult. After being used to submitting assignments projects before deadlines at college here I find myself comfortable. The mid sems and end sems are lined up in the same way three days six papers and no preparation holidays. I remember a lot working at college while going through all these, loaded up with work of all subjects same out here. It becomes easy to coop up. But the subjects are totally different and have to think on totally different angles. Have to do a lot of analysis on cases. I am enjoying and doing well also though I have to do better. I hope things at college are fine. My regards to madam.Bhakti

Seminar Presented by

Dr.Ravi P. Reddy at Bhubaneswar

Our Deputy Director Dr. Ravi P. Reddy presented the seminar on "Careeres in IT & Electronics" on July 21, 2002 at Hotel Sidharth, Bhubaneswar. The Topic was really very enthusiastic in view of the present depressed job market. A large number of people showed their interest by attending the seminar. It started at 6Pm and continued till 8PM.

Person of the month

Dr Arun Kumar Padhy was born in Berhampur of Ganjam district, Orissa. Both of his father Mr Bramhananda Padhy and mother Mrs Manorama Padhy are popular for their social activities in and around Berhampur. Dr Padhy is one of the first faculty members who joined NIST in 1996. During this period he has established himself as an outstanding teacher as well as a good research worker. After completing his M.Sc in organic Chemistry from Berhampur University, he has never looked back. He then completed M.Phil degree from the same University in the same area. Then he continued his research work towards the Ph.D degree of Berhampur University. After completing Ph.D in the area of "Synthesis and Biological activity of Nitrogen Heterocycles", he continued his research work in the same area and has published 8 research papers in different reputed International and National Journals. He has also published 30 conference papers in many International and national conference proceedings. He got the Prof R.K. Nanda best paper award from the Orissa Chemical Society in the year 1995. He was selected by UNESCO to participate in a workshop at Katmandu, Nepal in 1998 and also at IIT, Chennai, in 1999. He was the key person of the National Conference of Orissa Chemical Society held at NIST in the year 1998. He has also worked as Hostel Superintendent, Examination Coordinator and proved his administrative efficiency. He was Assistant Secretary of Orissa Chemical Society. He is the life member of various Scientific and Research organisations like Indian Chemical Society, Indian Council of Chemists, Chemical Research Society of India of India. He is also an annual member of American Chemical Society for 2002-2003. Recently he came from USA after completing the Post Doctoral research at the University of Denver, Colorado, USA for one year. He was with a strong research group led by Prof. Andrew L Ternay, Jr. who is a distinguished person in the area of "Anti-cyanide and anti-mustard gas agents. NISTians are proud of such a faculty ...We wish him all success!!!

Visit to Jharkhand Ravi P. Reddy

Spurred by the tremendous response of Jharkhand based students in joining NIST through the AIEEE (All India Engineering Entrance Examination conducted by Central Board of Secondary Education), we decided to tour the major cities of Jharkhand.

Mr. Siddharth BN, Mr. Ashutosh Kumar and myself first landed in Jamshedpur to hold the first open house meeting at Hotel Asian Inn. The meeting was well attended by about 30 people who asked many questions about NIST. We explained to them about the different admission categories (free, payment, NRI, etc.) and the admission procedures for each of them. Many students showed interest in our BE and MCA programs and they will be visiting our campus over the next few weeks.

The next stop was Bokaro. Our meeting was scheduled for 6 PM and at 5 PM, the biggest thunderstorm of the year struck. Rain, thunder, and lightning – it was impossible to move. Very few people came to attend the meeting but we received many phone calls showing interest in NIST.

Last stop was Ranchi – the capital of Jharkhand. The city was plastered with slogans and posters of the "domicile issue". The city is very crowded and dirty with lots of garbage piled up on the main roads. The high point of Ranchi was our visit to BITS, Mesra. This venerable institution of engineering with a 50 years record was extremely well maintained. The buildings were spotlessly clean – no paan stains, no paper pieces, absolutely no trash anywhere. And the lawns were green and neatly maintained. No smelly toilets either. The library was large and comparable to the IIT, Kharagpur library in size. Very spartan architecture but very

functional also. But just like government colleges, we saw no automation – the library was still using issue cards and the accounts section was completely manually handled.

The Open House meeting at 6 PM was attended by about 45 people. The audience was well informed and asked many pointed questions. At the end of it, many students showed a keen interest in joining NIST. We made many friends, especially in SAIL, R&D.

We returned via road to Jamshedpur and then by train to BBSR. We hope that because of this trip next year we will be getting a tremendous response to NIST in AIEEE. Next week, Dr. Arun K. Padhy and Mr. Ashutosh K. will be visiting these cities again. I wish them a good journey!

Question of the Month

Our best and brightest students leave for foreign lands for jobs and higher studies. Is this brain drain good for India?

--- Send your answers with a short reason to the editor at niste_news@yahoo.com. Result will be published in the next issue.