

Message from the Director



The citizens of the world have never been more anguished as they have been over the War on Iraq by USA and its allies. A war whose aim is to achieve economic colonialism of a sovereign country. Technology has been (mis)used to subjugate an entire nation by bombing of civilians, hospitals, public buildings, etc. The so-called weapons of mass destruction for which the war was waged has not been found. Instead a country which traces its history to 4000 B.C was laid to waste. The role of the western media and embedded journalism is open to doubt.

Under these circumstances what does a "free thinking individual" do. Is our role only to work for our paymasters and let the morality issues be dammed. Or should we stand up and be counted as having an opinion. The creators of the atom bomb, scientists such as Oppenheimer, Rosenberg, were tortured by such thoughts - and finally they took a stand against the use of such destructive weapons. However small may be our voice - we should make it heard. No issue is "useless or immaterial" for us especially when it affects our life, our future generation, our fellow citizens or our planet. Millions of people marched on the streets of London, Sydney, San Francisco, New York, Karachi, Delhi, Kolkata, Paris, Mexico - all clamoring for PEACE.

We add our voice - We want a just, fair and peaceful world order. The law of the jungle where might is right is history. The domination of one power over the rest of the world must be resisted by all means. The people of Iraq may have lost the war but have won the minds and hearts of the entire world.

April 15, 2003

(Sangram Mudali)

Message from the Editor

First of all, I would like to welcome the student representatives of NISTe-News who has taken the responsibility of accelerating the various activities of e-news. I am sorry as I could not put all the names of the team but I appreciate and feel proud of all the young courageous minds who have shown their interest for donating their services voluntarily for e-news.

Do you know that 38 NIST students presented their technical papers in various parts of India in this month only. Out of them 18 students got prizes. This statistics should encourage the rest of the students as well as the faculty members for more participation in technical Conferences, seminars etc. Congratulations to all of them.

April 15, 2003

(Partha S Mallick)

NISTe-News Welcomes its Student Representatives

- Balakrishna Gupta(EE, Final Year)
- Aruna Kr Tripathy(CSE, 3rd Year)
- Manoranjan Jena(CSE, 3rd Year)
- Bijoy Shekhar Shroff(ECE, 3rd Year)
- Sunita Panigrahi(IT, 3rd Year)
- Sudhansu Sekhar Sadangi(MCA)
- Vivekananda Das(ELE, 2nd Year)

Letters to the Editor

From: "sanjay fargose" <sanjayf80@yahoo.com>

Sir, My name is Sanjay Fargose. I live in Borivli, Mumbai. I am a BE(mech) from Shivaji University, Maharashtra. I am planning to go for MS(Industrial Engg) in US from this August onwards. I got your e-mail id from Yahoo search. I read in one article on the net that you have prepared notes of MATLAB for self-learning. I am interested in studying Matlab, but couldn't locate any coaching in Mumbai for that. I will be obliged if you can please forward the required notes to me. Please inform me about the expenses involved & preferable mode of money transfer. Seeking your positive reply. Thanking you. **Sanjay**

From: "sunita panigrahi", 2000 batch<dilch@rediffmail.com>

Sir, Well this information is for all niste_news readers. All those who want to know more about Oracle and its detail, they can login to www.oracle.com and they will get a free magazine, which will be delivered to their address, Regards **Sunita**

From: "rauth munna kumar"<chalpat_munna@rediffmail.com>,1998 batch

Sir, How is everything there? I have cleared 3 rounds out of 5 rounds of *Dell Computers*. I want the most frequently asked questions(FAQs) in Interview written by our senior Abhishek Chatterjee with answers. Please attach the soft copy of it. It will be of immense help to me. You can publish it in the NISTe-News also. Regards, **Rauth Chalpat Kumar**

Special News

Panel discussion - War on Iraq

A panel discussion on *War on IRAQ - beginning of World War III?* was held at our campus on April 5, 2003 in the Seminar Hall, Lecture Hall Complex. The Speakers



were Dr. Arun Kumar Panda, IAS, Revenue

Divisional Commissioner(RDC) of Berhampur and former Vice-Chancellor of Berhampur University. Prof. Brahmananda Satapathy, Professor, Dept of Political Science, Utkal University, Prof D Mishra, Berhampur University and Shri Rabi Singh, Journalist and renowned personality in Oriya literature. Our Dy Director Dr Ravi P Reddy chaired the program. The speakers discussed about the topic in detail and agreed that the war on Iraq is basically a war against humanity. It is the war against the Third World –said by Prof. Brahmananda Satapathy. Dr Arun K Panda admired the courage of the people of Iraq. Mr Rabi Singh impressed the audience in his speech in

Oriya. He said that it is a war of inhumanity against humanity. Finally our Director Mr Sangram Mudali concluded the discussion. Our Placement Director Ms Geetika Mudali gave the vote of thanks. The panel discussion was made lively by the intelligent questions of our faculty, students and reply from panel members. Congratulations to the organizing team lead by Mr Arun Pattnaik for this successful program.

GATE Percentile!!

Our 1998 batch students have shown their talent again in the recently published GATE result. Here are some of them who obtained more than 90%

Name	Percentile
Anshuman Padhy(1996,ELE)	95.99
Subrat kr Dash(1996, ELE)	94.77
Laxi Narayan Panigrahi(1996, ELE)	92.75
Debi Prasad Mahapatra(1998,EIE)	98.47
Subrat Kr Panda(1998,ECE)	98.00
Arpita Ghosh(1998,EIE)	96.68
Sonali Satapathy(1998, ELE)	97.50
Srividya(1999, CSE) -	96.00
Sanjay Kr Barik(1999,CSE)	97.98
M Bharat Kr(1998, ECE)	94.49

NISTe_News is grateful to **Mr B K Dash** providing this list.

Get-together at Gopalpur-on-Sea

A grand party was held at Hotel Sea-Pearl on April 12, 2003 to welcome the new faculty members of NIST. NIST faculty took time off to play beach volleyball. The party started with the inaugural speech of our honourable Director followed by the introduction of the new faculty members and sharing of valuable experience gathered at Kathmandu, Nepal by our Dean Dr Ajit K Panda. The most interesting part of the Get-together was a game conducted by Dr Partha S Mallick which was *How much do you know your spouse?* And all the couples scored high points in the game. The game was followed by the lovely songs of Mrs Mohua Mallick and Mr. Indranath Bhattacharya respectively. The final touch of the Get-together were the delicious dishes enjoyed by the NISTians.

Guest Faculty at Nepal

Our Dean Dr Ajit K Panda visited Nepal recently as the Visiting Faculty of Nepal Engineering College, Katmandu. He was there for one week and was engaged with various academic activities like delivering



series of Lectures on *VLSI Technology and related areas*, BE Project evaluation etc. Congratulations on your successful trip!!

TCS officers visit NIST

NIST is one of the Accredited Engineering college of Tata Consultancy Services(TCS). NIST students are doing extremely well in TCS(the letter sent from TCS was published in the Vol. 2 of enews). So far 21 students of 1998 batch have got selected this year in TCS. Recently two of TCS officers, Captain Dilip Mohapatra, Head, HR, TCS, Mumbai and Mr SS Oberoi, Consultant, TCS(Administration), NOIDA visited NIST. They met with Faculty and students of NIST and talked to them regarding the academic activities of NIST. NISTians are thankful to them for their visit.

NIST is one of the JEE centers

The Biju Patnaik University of Technology(BPUT) has selected our college as one of the centers to conduct the Joint Entrance Examination(JEE). Our MCA Course Coordinator Dr A K Padhy will work as Center Superintendent for the JEE exam. This is the first time NIST as a JEE center.

NSS – at NIST

The **National Service Scheme(NSS)** cell of Berhampur University gave permission to open a unit in NIST. This newly sanctioned unit will be consisting of 50 male volunteers. The students are already applying to be NSS volunteers by taking the form available with the coordinator by April 20, 2003. Our Chemistry faculty Mr Harihara Padhy has taken the responsibility to conduct the NSS at NIST. We wish all success to NIST-NSS.

They got jobs in TCS this year!!!

After a good start by our 1st batch(1996) students in getting jobs in TCS, the 2nd batch is continuing.....now the 1998 batch students have started it....here is the list of successful students of 1998 batch who have been recently recruited by TCS.

Abhijit Chaudhuri(ECE), Akash Rohin Kumar(ELE), Amit Jain(CSE), Ashrujit Mohanty(CSE), Bhabani Shankar Panda(ECE), Bijayendra Ratan Kundu(ELE), Debabrata Dash(CSE), Hrushikesh Panda(EIE), Nidhi Gupta(CSE), Rajesh Ku. Padhy(CSE), Rashmita Pradhan(ECE), Saikata Das(ECE), Satya Swarup Sahu(CSE), Sheetal Pradhan(ELE), Shweta Purohit(ECE), Siba Shankar Rauto(ECE), Sunkuru Prasanta Lakshmi(ECE), Surjya Narayan Sabat(CSE), T.Naveen Varghese(CSE), Ritwik Sanyal(CSE), Ruchir Bal(CSE) and Sidharth S Satpathy(ECE).

Success of our GATE students

The students of GATE-2003 preparation course of NIST Centre of Excellence, Bhubaneswar have shown their talent in the recently published GATE results. Mr Padhyumna Ojha is the topper in ECE with a score of 97.68 percentile and Mr Manmat Roy is the topper of CSE with a score 92.65. Congratulation to both of you.

Congrats!! NTCS Engineers

Mr Susant Kumar Sahu and **Mr Sudhir Kumar Nayak** for clearing the ORACLE Certification Examination 1Z0 – 007 with both scoring a magnificent 93%. Best wishes from NISTians. Keep it up!!!

A Wonderful Cricket Match!!

It was really an excellent cricket match between NIST-XI and SP-XI(Superintendent of Police, Berhampur). The NIST-XI was the team by NIST students, Staff and Faculty led by Mr Basant K Dash and the SP-XI team constituted of Berhampur Police lead by the SP Mr Amitabh Thakur. On April 6, 2003 the match was played between SP XI Vs. NIST XI at Berhampur Stadium. Toss was won by the SP-XI and they chose to bat first. The top scorer from SP-XI was Sidhartha(59 from 29 balls), Manoj(49 from 33 balls) and Mr. Amitabh Thakur (Superintendent of Police, Berhampur) himself scored a brilliant 34 in 43 balls. Sudeep Mishra took 3 Wkts in 06 overs with 23 runs and also excellent bowling by Mr. Anisur Rahman. Supriyo Choudhary of NIST scored 32 in 30 balls. Details of awards are as follows:- Man of the Match:- Manoj of SP-XI(49 from 33 balls and 02 Wkts), Best bowler Sudeep Mishra of NIST(took 3 Wkts in 06 over giving 23 runs only) and the best batsman Sidharth of SP XI(59 from 29 balls). Finally our Placement Director Ms Geetika Mudali distributed the prizes. The presence of our Director, Faculty, staff and students made the match more lively.

NIST Welcomes U....



Welcome **Dr Biplab Ganguly!!** Dr Ganguly is a Ph.D from IIT, Kanpur who joined NIST on April 01, 2003. He has vast experience in teaching and research. He worked for 10 years in Sherubtse College, Bhutan. Then he joined S N Bose Research Center, Kolkata for his Post Doctoral Study where he was for 02 years and did some commendable research work in the area of Condensed Matter Physics. He visited ICTP, Trieste, Italy as a *Visiting Scientist* in the

year 2000 and 2002. His current area of research interest is Condensed Matter Physics, Non-Linear Dynamics and strongly correlated systems.

NIST Welcomes **Mr. Nalla Srinivasu!!!** Mr.



Srinivasu joined us on March 25, 2003 as a Lecturer in Electronics & Communication Engg. department. He has an excellent working experience in the area of Networking

Protocols and Signal Processing. He is an M.Tech from IT, BHU and worked on the "Simulation of Intranet on TCP/IP" for his M.Tech degree. After completing BE in Electronics and Communication Engineering from A.U. College of Engineering, Andhra University he joined DIPAC (Defense Image Processing and Analysis Centre), Delhi Cantonment, New Delhi as a *Maintenance Engineer* where he was one of the key persons who were looking after the entire earth station during real-time passes of IRS(Indian Remote Sensing)-1C and 1D series satellites. He also worked as a Lecturer in the Electronics and Communication Engineering Department, Hindustan College of Science and Technology, Agra-Mathura Road. He also did the Diploma in VLSI Design from CDAC, Bangalore. He is a member of IEEE (Institute of Electrical and Electronics Engineers). His area of interest is VLSI Design, Wireless Communication Networks and Signal Processing.

He is **Mr. Priyaranjan Mohapatra** who



joined NIST in the Department of Computer Science and Engineering. Priyaranjan is originally from Berhampur, Orissa where he did his primary and Secondary education.

After the completion of BE(CSE) in 2000 from JIET, Cuttack he got admitted to BIT, Mesra for his Master of Engg. degree. After the successful completion of the ME degree

he has joined us. We wish him all success here in NIST.

We welcome **Mr Subhranshu R Samantroy** in our Electronics & Instrumentation department. He graduated in Electrical Engg. with Honours from UCE, Burla as a topper of the batch. Then in the same year he got a job in a Tata Group of Company named Tata Refractories Ltd(TRL).



He was there for four years and got trained in the area of Industrial Automation and power systems. His present research area of interest is Drives, Control and DSP.

Welcome **Mr Debasis Sahoo**, our youngest member of the VLSI group.



Debasis joined in the department of Electronics and Communication Engineering on March 15, 2003. He is one of our brilliant students of 1997 batch. Before joining NIST he was in Raveesh Computer Pvt Ltd. in Delhi as a faculty for one year where he got the expertise of taking classes of Communication and Digital Image Processing. He did his BE Project in the area of VLSI using EDA software. He is presently working with EDA Tools.

Cricket - Final Yr- XI Vs. Rest XI

It was a good competition between Final Year-XI and Rest of XI at Khalikot college ground on March 16, 2003. Final year students won the toss and opted to field first. Rest of XI were all out in 69 runs. Final year achieved the target with the loss of 04 wickets. Amiya Budhiya of final year was



declared as Man of the match and was awarded a cash prize of Rs. 300/- which was given by our students activities co-ordinator Mr. Vinay Kumar Das. Mr. B. K. Dash inaugurated the match and the winner trophy was given by our Dy Director Dr. Ravi. P.Reddy. Thanks to Mr. I Bhattacharya and Mr. Vinay Das for good Umpiring.

Basket ball match at NIST

It was on April 11, 2003, a wonderful Basket ball match between 2001 and 2000 batch. 2000 batch won the match after a neck to neck competition. presence of our Director, Dy Director, Dean, Course Coordinator, Faculty and students made the match lively.

Alumni Page

From: Susanta Panigrahy<susanth@digital.co.jp>To: smudali@hotmail.com

Subject: A Nistian

Date: Fri, 17 Jan 2003 19:31:07 +0900

Dear sir, I doubt whether you can recognize me or not but I hope you will. I am Susanta Kumar Panigrahy, a NISTian of the batch 1996(EE199618007). Today I got a chance to write to you, courtesy <http://www.nist.edu/>. How are you sir? How is our NIST? At present I am working with Digital Electronics Corporation, Osaka, JAPAN. Today during lunch hour(12:45 PM) I wished to visit our NIST Website for some 15 minutes and then to start work. But I could not know when that 15 minutes became 150 minutes. when I saw the watch it was showing 15:15 PM. I was astounded by seeing our NIST. For a while I was in a confused state of mind that, whether I am a graduate from the same NIST. By seeing the NIST in its new form I wish I would spend another 4 years and get another degree from NIST. I was so happy that I needed someone to share it with me. After thinking for a while I found none other than you. so writing this mail. Eagerly waiting for reply. Bye, **Susanta**

From: "Bapi Dash" <bapi.dash@wipro.com>

To: "Ravi Reddy" <ravipreddy@yahoo.com>

Subject: wish a Happy Holi

Date: Fri, 21 Mar 2003 10:28:46 +0530

Dear Sir, Things are Ok here. After the grinding folks have at NIST, taking up projects at any comp. is no big deal. And yes though people at that point of time might have felt that why Reddy sir's making life miserable with projects & deadlines, sticking to standards, presentations; now they realize that it is helping them a big way to handle pressure. Not only for ones into jobs but also the guys who are doing their management. You are always remembered. Sir, how are things going on? Are you able to squeeze in time for writing. What about the novel.. you need to do some justice to it .. it was something very different .. and I am sure it will be appreciated. And how is your daughter doing, she is sweet. Must have grown taller now. I too look forward to meet you. Regards. **Bapi.**

From: Arunima Ram

To: geetika_nist@hotmail.com

Subject: Hello Madam!!

Date: Wed, 8 Jan 2003 23:15:23 -0800 (PST)

Madam, For the past 6 months I was doing the course of Advanced Computing from CDAC, ACTS, Pune. Now through this Institute I have got a job in "Honeywell" of Bangalore. All this waiting and slogging did pay off finally. I am sure you would be happy to know this. How is NIST performing nowadays??? Yours Sincerely, **Arunima.**

Date: 24 Feb 2003 00:44:32 -0000 From: "Ashrujit Mohanty" <jipy8@rediffmail.com

To: "Placement Director" <nist_placement@rediffmail.com Subject: Hello

Dear Sir, You are doing a great job there by trying to help students of our batch to land up in some job. I have applied to US universities for MS in computer science for fall 2003. I am expecting results by the end of next month or in April. I had been to TCS Kolkata to give the interview. I have given all the rounds. After the written we got a Technical interview round. They asked me questions from C and C++ and a couple of questions about my BE project. Then for those who qualify the technical interview there was a HR interview. I have given the interview where they asked me why I would like to join TCS, what are my future plans etc. our PPT classes certainly helped me in that. Sincerely, **Ashrujit Mohanty**

Sagar Sahu(ECE, 1998 batch) got admission in XLRI, Jamshedpur: for MBA.
Tanmay Dey(ELE, 1998 batch) and **Sushim Amitabh**(ECE, 1998 batch)
 got admission in XIIM, BBSR for MBA.

NISTians Congratulate all of you....

From: manmath ray <mail2_chiku@yahoo.co.in

Subject: Help for GATE admission To: Anisur Rehman<anisurr2001@yahoo.com>

Date: Sat, 22 Mar 2003 06:44:58 +0000 (GMT)

Sir, I hope this mail will find you safe & sound. You will be little surprised to see this mail. You may forget me in the mean time but I still remember you and your DS/Algo classes at NIST, BBSR. I got 92.65 percentile in GATE & I lost some due to lack of time & I had done more 1-mark questions rather than 2 mark questions. Now it is very difficult for me to choose a suitable place for my MTech Admission. In coming July, I will be completing MSc Comp. Sc. from Utkal University. I prefer teaching & research to any Industrial job. So please suggest regarding this. Is this % OK for MTech in IITs, can I try for PHD in IITs? Now I am at IIT, Kanpur for my last semester project work. I am trying for ISI but it is difficult for me, as I have no material on +2 & BSc math here to prepare. Math paper is essential for ISI, so I am not sure about a good score in ISI. So kindly suggest me where should I take admission & how I should proceed and also about the list of other good colleges. Please send me email of Dr.P.C. Biswal & NIST BBSR center. Regards, **Manmath Ray**

Student's Corner

NISTians Congratulate all of U....

- **Aruna Kumar Tripathy** and **Nihar Ranjan Sahoo** for your paper titled *Nano Assembler* presented at Zeal-2003, a National Level presentation Contest held at Bapurao Desmukh college of engineering in March, 2003.
- **Gautam Dash** of 3rd Semester, for winning the 2nd prize in paper presentation contest in ISHAANYAH-2K3, a National level seminar on "Modern Trends in the emerging field of technical education". The title of his paper was *Stealth: the key to Air Supremacy*. The ISHAANYAH-2K3 was organized by Truba Institute of Engineering & Information Technology, Bhopal(M.P.) on March 28-29, 2003. You are upholding the never-ending winning tradition of NIST. Keep it up!!
- **Gaurav Pattnaik(I.T)** and **Lalatendu Pattnaik(CSE)** of 3rd year presented their paper on "**Intelligent Network**" in the **Ishyaanyah 2k3** held on March 28-29, 2003 organized by Truba Institute of Engineering and Information Technology, Bhopal (MP).
- They are **Srinivas Rao** (5th Sem, IT) & **Shakti kr. Mishra** (5th Sem, CSE), who won the 3rd prize in an active participation in *Wall decoration* in **Antaragni 2003**, an all India Collegiate Festival of IIT Kanpur held in January, 2003. Keep it up!!!!
- She is **Tapaswani Mishra** of 2nd year who has been selected for 1st position in the inter college debate competition in Oriya on "Pandit Nila Kantha Dash" for the year 2003. The topic was **Pandit Nila Kantha Dash was a better Politician than a Poet !!**. She was awarded a cash prize of Rs. 100/- and a Silver Cup. Tapaswini..... Keep it up!!!
- **Antariksh kar** and **Sunil Deepak Kumar** of 3rd year were awarded the 2nd prize (with trophy) in SANGANAK-2003, a national level technical

symposium which was held on April 3 - 5, 2003 and was organized by the Professional Association of Computer Engineers, Dr. B. R. Ambedkar University of Technology, Jalandhar. They have not only won the prize in paper presentation but also participated in the cultural program and Antariksh bagged the 2nd prize in *Solo dance*. Well done

- **Swati Sucharita** and **Alok Ku. Panda** of 5th semester, CSE for your paper titled *Image Processing* selected for presentation at SANGANAK – 2003, a National Level Symposium, organized by PACE(Professional Association of Computers Engineers), Dr. B. R. Ambedkar University of Technology, Jalandhar on April 3-5, 2003. Keep it up!!

Our's success in EXPLITRON - 2K3

EXPLITRON-2K3 – a national level technical festival organised by the Department of Applied Electronics(AE) & Instrumentation Engg(IE), NIT Rourkela. Out of 60 papers from India, 07 papers from NIST and out of 12 prizes 03 prizes were grabbed by our students only!!!! NISTians won the 02 prizes in the VLSI session out of 03 prizes. Great!!! Congratulations!!! all of you. Here is the Winners list....

- **Aruna K Tripathy** and **Shakti P Mishra** of 5th Semester won the **2nd Prize** for the paper on *Field Programmable Analog Array*.
- **Suresh K Shadangi** and **Malaya Rout** of 5th Semester achieved the 3rd prize for their paper titled *System Level Integration and SoC*.
- and, in another session **Saroj K Satapathy** and **Susanta K Patro** of 5th Semester won the **3rd prize** for the paper on *DSP- The Embedded Technology*.

Learn Ravish Ranjan

Learn from flower
to smile everyday
Learn from water

to move forward
 Learn from smoke
 to climb the top
 Learn from milk
 to combine with
 Learn from the cool breeze of wind
 to make your heart soft with love
 Learn all these
 make yourself a real human being

Winners of Web designing Projects

The 2nd Semester Students(2001 batch) have recently presented their Web-design Projects. The panel of judges consisting of Mr. Anisur Rahman, Mrs. Alka Das, Mr. Pradeep Jena, Mr. Debashish Mishra and Mr. Sushant K Mahapatra finalised the Winners List. Here is the List..

Raj Kumar Mahapatra, IT(First), Somioranjan Mekap, ECE and Supreeti Mitra, EIE (Second), Amrita Pattnaik, ELE and R.Murali Krishna, IT(third). Our Director Prof. Sangram Mudali will distribute the Prizes and Certificates to the winners. Congratulations!! to all of you.

Mera number kab ayeegaa...

The Internet lab is jammed
 Computers lab are all busy
 Faculties are overloaded
 final year students are ...restless
 A crowded printer room
 Every one is hurrying up
 Tired faces in the evening bus
 another new dawn in NIST
 ... The start of the 7th semester

I asked some one
 Why are you so busy?
 A reply came
 Chode yaar, ye tech sem ka baat hei
 Another reply came
 Yei summer training presentation kaa tension
 B.E project to aage hei
 Then from the back a frustrated reply
 thundered at me
 Yei log kisiko nehin chodte hein
 Haan!! tuhmara number bhi ayeegaa
 Then I thought
 we are the next
 in this upcoming test.

Paper presented at APOGEE - 2003

05 papers were selected to present at APOGEE – 2003 held at BITS, Pilani on March 12-13, 2003. Congratulation to all of you. Keep it up!! Here is the list of the papers and authors...

1. Balakrishna Gupta & Ranjeet Mohanty, 7th Semester
 Title: Low Cost Smart Kitchen Range Hoods
 Date of presentation: March 12, 2003
2. Satyabrata Jit & Suresh Moda, 7th Semester
 Title: Carbon Nanotubes- A New Revolution
 Date of presentation: March 12, 2003
3. Suresh Kumar Shadangi & Malay Rout, 5th Semester
 Title: SoC And Core Based Design.
 Date of presentation: March 12, 2003
4. Neha Puntambekar & Krishna Gopal Padhee, 7th Semester
 Title: Trends Toward Opto Electronics Integrated Circuits
 Date of presentation: March 13, 2003
5. Ramakanta Rathore (7th Sem.) & Aruna K. Tripathy (1st Sem.), 3rd year, CSE
 Title: Predicting HIV Drug Resistance Using Neural Network.
 Date of presentation: March 13, 2003

NISTians at TECNOSURGE - 2003

TECNOSURGE - 2003, a National Level Symposium on “Advance in Electrical Engineering” was organized by the Department of Electrical engineering, NIT, Jamsedpur in association with the Institute of Engineers, Jamsedpur on March 26-28, 2003. There were many guest lecturers by eminent personalities from both industry and academia. The industrial visit to TISCO was a memorable experience for every participant. 32 papers were selected for the Presentation out of which NIST students presented 04 papers. The 04 papers from NIST are

1. *Application of field programmable analog array* – by Aruna K. Tripathy & Shakti P. Mishra, 5th semester.
2. *Application of Robotics & Mechatronics in Autonomous Vehicle system* - by

Aurodeepta Pattnayak and Lopamudra Mitra, 7th semester.

3. *DSP: The embeded Technology*- by Saroj K. Satapathy and Susanta K. Patro, 5th semester
4. *System management of a wind Energy Converter* – by Jaya P. Das and Satyabhama Panda, 7th semester.

Congratulations!! to all of you for making us proud. Keep it up ...

NISTians success at AAROHAN 2003

REC Durgapur organised a National Level



Technical Festival named AAROHAN on March 14-16, 2003. The paper from NIST titled

BIOINFORMATICS – Unleashing the power of DNA Computing by **Bijoy Sekhar Shroff** and **Anit Kumar Sahu** of the 5th semester, ECE, was selected and they bagged the 3rd prize for their paper.

They also won the 3rd prize for HYDRAGYRUM – The overnight Software Contest – which was a highly contested event in which over 50 teams participated and only 20 made it to the finals. The duo were also among the 6 teams which had been to the finals of the IT-Quiz.

Another team from NIST, consisting of Sambit Rout (IT Branch) and Sagar Samant Sinhar (CS Branch) of 5th semester, stood 7th in CODEMARAUDERS – The debugging contest.

Do U know it!!!

Father of Economics: Adam Smith (1723-1790), England

Father of Geometry: Euclid (300 B.C), Greece

Father of History: Herodotus (484-424 B.C), Greece

Father of Poetry: Geoffrey Chaucer (1340-1400), England

Father of Medicine: Hippocrates (460-370 B.C), Greece

Father of Chemistry: Robert Boyle

(1627-1691),

Father of Physics: Isaac Newton,

Father of Biology: Aristotle (384 B.C-322 B.C), Greece

Father of Comedy: Aristophanes (445-385 B.C), Greece

Father of Politics: Aristotle (384-322 B.C), Greece

Father of Mathematics: Thales of Miletus, Greece

(Source: *Indian Express*, March 26, 2003)

Know about myself...

1. **Name and email ID:** Swetank Rajguru, swetank_2k@hotmail.com



2. **Native place** : Berhampur, Orissa

3. **School/College:** De-Paul School, SKCG College, Parlakhemundi, Berhampur.

4. **Achievements (awards, scholarships etc.):** Won 7 National level Awards in cultural events (Debate, Elocution, Hot-talks, Quize etc).

5. **Hobbies:** Debating

6. **Strong points:** Confidence & Faith in God

6. **Ambition** : To prove my worth.

7. **What I Like:** People who are capable to challenge the truth

8. **What I Dislike:** Hypocrisy

9. **Favorite Personalities:** My Father & Teachers

10. **Favorite Color:** White

11. **Favorite Dishes:** Chilli Chicken

12. **Favorite Newsletters/Magazines:** Resonance, Digit

13. **Message for the NISTians:** Never underestimate yourself. You are better than the best. Know yourself and prove yourself.

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1. **Name and email ID:** Bijoy Sekhar Shroff, Bijoyshroff@indiatimes.com

2. **Native place** : Sambalpur, Orissa

3. **School/College:** Class 12th and 10th : Kendriya Vidyalaya, Surda, Ghatsila, Jharkhand

4. **Achievements (awards, scholarships)** 2nd prize in Extempore, JAM, Open Sessi and 3rd in Volte Face in Youth Festival held

at UCE, Burla, 3rd prize in paper presentation & software contest at NIT, Durgapur. Technical papers accepted for presentation many times in various National and International Conferences including CIT-02.



5. **Hobbies:** Reading Novels, listening to music, watching Movies, etc
6. **Strong points:** Optimistic attitude and the ability to learn from failures
7. **Ambition :** To have a company of my own so as to generate employment & revenues for the nation
8. **What I Like:** Honesty, discipline, and a positive attitude
9. **What I Dislike:** Hypocrisy and pessimism
10. **Favorite Personalities:** Dr. A. P. J . Abdul Kalam, Stephan Hawking
11. **Favorite Color:** Light Blue, White
12. **Favorite Dishes:** Uttapam, Chole Bhature, and Sweets
13. **Favorite Newsletters/Magazines:** India Today, Business Today, Digit, CSR
14. **Message for the NISTians:** Believe in yourself, learn from other's mistakes and never give up because even "impossible" says "I am possible"

Career Corner

Job Sites Susanta K Mahapatra

<http://www.appointmentsindia.com/>

(offering job placements in India)

<http://www.spectrumconsultants.com/>

(management consultant offers recruitment services)

<http://www.webindia.com/spectrum>

(a Bangalore based executive search firm)

<http://subvijay.hypermart.net/>(offering

resume listing and placement services)

<http://www.sunsoftsolutions.net/>(recruitme

nt agency in the field of information technology)

<http://www.sunitaglobal.com/>(placement & consultancy services for S/W professionals)

<http://sconsultant.hypermart.net/>(recruitm

ent agency and placement consultants)

<http://www.surf4jobs.com/>(offers free

resume posting, free job search and more)

<http://www.systelepros.com/>(software and IT manpower recruitment agency)

<http://www.tmi-network.com/>(leading IT recruitment and advertising agency)

<http://www.tabplacements.com/>(jobs in buying & export house, apparel industry etc.)

Knowledge Teasers

Kushal Bhut & Manmit Singh, 3rd Year

1. Which was the Website started by Mr Tarun Tejpal?
2. Who is the writer of "Wings of Fire"?
3. Which popular game on PCs shares its name with a James Bond character?
4. Name the first foreigner who won a filmfare award?
5. Which popular comedy series was created by the duo of Antony Jay & Jonathan Lynn?
6. Which state has its secretariat building named after the junior officers of East India Co.?
7. What did N G Bhansai and Hancock design based on the actress Kamini Kaushal?
8. Whose ships were the Sao Rafael, Sao Gabriel and the Berrio?
9. What was invented in 1973 by Martin Cooper of Motorola?
10. Euro is the currency of which country?

Send your ANSWER by May 10, 2003. Name will be published in the next issue.

(This time we got a very good response. Among the responses no one was able to provide all the 10 correct answers. Ms. Pallavi Mohanty gave 08 correct answers. Hope for the better in future. The Answers with the Questions are being given below - NISTe_News).

1. "A thing of beauty is a joy forever" - from which poem of John Keats?(Endymion)
2. Which organisation established the newspaper Hindustan Times?(The Ghadar Party)
3. According to Bible, which name was given to the final war between Good & Evil?(Armageddon)
4. Which magazine's Logo is Pegasus, the winged horse?(Reader's Digest)
5. Which company's Logo is based on the legend of a Cat having 9 lives?(Eveready)
6. Which movie was the election slogan of Zulfikar Ali Bhutto?(Roti Kapada Aur Makaan)
7. Which character of Indian Mythology was known as Vaidehi?(Sita)

8. Which company has its origin as Herman Hollerith's Tabulating Machine Company?(IBM) 10. In which year Rabindranath Tagore got the Nobel Prize?(1913)
9. Which African country played the Semifinal of World Cup Cricket-2003?(Kenya)

Question of the Month

Should attendance be made compulsory in an Engineering College?

 Yes

 No

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

Last Month's Poll

The Question of the last month was "The Caste System is a blot on our country and our culture, Do you agree?" We have received very good response this time. All of them went for Yes. Here are some of them...

From: "neelam baruwati" <neelamjyoti@yahoo.com>

Yes, Of course, I do agree, it is not only a blot in our culture and society but also a matter of grave shame and *abhishaap* to the greater Indian society and to its culture. Some intelligent people in the ancient society created the so called caste system for their own benefit and it has transformed itself from one generation to another generation and has takes a devil shape in the present day society. A person's intellectual affinity and innate human potetiality is more important than his Cast, color or creed. The creator of our Indian constitution Dr. A.R Ambedkar was a *dalit* (so called) was he not really highly intellectual than some of the contemporary upper class Indians of his generation .We have seen lot of wars, lots of pogrom in the name of religion and caste. We do not want no more war, no more division in the name of this narrow profile. We want a developed India, where each and every citizen of this country, starting from rikhsa pullers to the president of this country, with a smile on his face and can say "this is my beloved INDIA", where any citizen of this nation belongs to only human caste.

From: "sucharita swati" <swati_sucharita2k@yahoo.com>

Yes, I do agree that the caste system is a blot on our country and our culture. It is because of this baseless system, that people are still discriminated in various fields. And many people despite of being very efficient and capable are looked down upon because of their so called low caste. In my view, a person with a low caste and fine attitude is much more civilized than a person having a higher caste but with an bad attitude.

From: "Suren dazzle" <dazzle_suren@yahoo.co.in>

Yes, Our Indian culture traditionally has a great value and as India is a developing country, the caste system will definitely leave a bad effect on it.

From: "helloriti_nistian" <helloriti_nistian@indiatimes.com>

Yes, of course, the caste system is really a blot on our country with a blemish & stain on our culture. It's nothing but a strongly narrow minded feeling towards the superstitions of dividing of castes into lower caste, higher caste & inter caste etc. What Hindu? What Muslim? What Sikh? & What Isaai? Practically there is no difference between these castes. Rather than that is only the different way of worshipping the single God by it's different names. So by the modern point of view this caste system must be vanished out.

Future technology

LIDAR

Balakrishna Gupta, Final Year

LIDAR is a newly developed concept, which has occupied a lot of demand in the field of technology. It is widely used in various areas where detection is required. It is similar to the RADAR and can be thought of as LASER RADAR. LIDAR operate in the ultraviolet, visible and infrared region of the electromagnetic spectrum. LIDAR is the acronym for Light

Detection and Ranging. LIDAR's transmitter is a laser, while its receiver is an optical telescope. The receiving system records the scattered light received by the receiver at fixed time intervals. It uses the extremely sensitive detectors called photo-multiplier tubes to detect the light. Photomultiplier tubes convert the individual quanta of light, photons, first into electric currents & then into digital photocounts, which can be stored & processed on a computer. These are used for detecting various components in the atmosphere from space and can be used to solve various scientific problems in the atmospheric science. The major functions of LIDAR are measurement of speed, distance, rotation, chemical composition and concentration of a remote target where the target can be a clearly defined object, such as a vehicle, or a diffuse object such as a smoke plume or clouds. (Source: <http://www.lidar.com>)

Summer Training Report

B K Dash

Summer Training is a vital part in the course curriculum of Bachelor of Engineering Course. The main objective of this training is to give the students an opportunity to have an industrial exposure. This is also an unique opportunity for the students to know the latest technology, industrial environment and many other industrial activities around the globe.

Here at NIST we are front runner in providing sending our students to top most leading organisations of Public Sector as well as private sector in India to undergo their summer training. We have successfully completed 4 years of arranging summer training of our first four batches of students. Last year our students have undergone their training at more than 100 organisations as a result our student to company ratio was 2.5: 1. This statistic indicates that we have sent our students to all corners of India and covered almost all leading organisations. Some of them got job offer from the organisation from where they got trained.

Now we are in a position to provide summer training for 1000 students in different organisations. The names of some of the organisations are given below. Due to lack of space it is not possible to cover all the companies.

DRDO: ITR, PXE, NSTL, DRDL, INMAS etc.

ISRO: IIRS, IRSA, IMFC

SAIL: Rourkela, Bhillai, Bakaro, Ranchi, Durgapur etc

INL: Vishakhapatnam

HAL: Hyderabad, Sunabeda, Bangalore, Lucknow

BHEL: Bhopal, Hyderabad

BEL, NTPC: almost all centers

GRIDCO: All centers

BSNL: All centers

TATA GROUP: SNTI, Jamshedpur, Nuamundi,

Software Companies: HCL, WIPPRO, TCS, L & T, SYNOPSIS, CALDERA, STPI, IBM, APTECH, NIIT, Educational Institute: IISc (Bangalore), IIT(Kanpur)

L & T Group: All centers

GODREJ, SHIPPING CORPORATION: Vishakhapatnam, Cochin, Mumbai

OIL SECTOR: IOL (Assam), HPCL, BPL

ALUMINIUM SECTOR: NALCO (Angul, Damanjodi, Bhubaneswar), INDAL(Hirakud)

POWER DISTRIBUTION COMPANY: All in Orissa

OHPC:Hirakud, Indrabati, Bariniput, Balimela etc

COAL INDIA:CCL, MCL, INDIAN RAILWAYS, ALSTOM, KIRLOSKAR, L & T

SWITCH GEAR, AIR INDIA, AIR PORT AUTHORITY OF INDIA, PRASSAR

BHARATI: All India Radio, Door Darshan Kendra

Foreign Language for all

Santanu Mukerji

The indigenous Indians had interaction with foreign society from pre-historic ages. Some of them have integrated themselves with the Indians and some of them had imposed their language, culture and society on us. These opened up the Indian Society through the ages.

Learning Foreign Language is becoming important gradually for engineers as well as for other professionals. It is the essential medium to understand other's culture, history, customs and traditions, hence it brings someone to the rest of the world.

The emergence of the global economy has made the multilingual personnel mandatory in most fields of human enterprises of 21st century and will continue to grow in the coming years. At present the most important foreign languages for Indians are French, Spanish, German, Chinese and Japanese.

How do you begin these courses? There are many Institutes for these courses in almost all the important cities of India. As for example, 5 years integrated BA and MA course in foreign language conducted by the school of Language, Literature and Culture Studies, Jawaharlal Nehru University, New Delhi. Also you can pursue your under-graduation in a Language of your choice and study languages at embassy sponsored or government sponsored specialized language training school like *Alliance* for French or Max Mueller Bhawan for German language. There is a Japan foundation course conducted by Japanese embassy or consulate. Along with JNU another premier educational institution dedicated to the study of languages is the Central Institute of English and Foreign Languages(CIEFL) at Hyderabad. This CIEFL provides help to improve the standards of the teaching of English, French, German, Japanese, Russian, and Spanish. Our NIST has started to teach Japanese as a Foreign Language. Gradually other Languages will also be started. The first foreign language of Australia and Newzeland is Japanese. The *Japanese Language Proficiency Test* which is also called level test conducted by Japanese embassy every year. There are four levels in this test. Every year in the first week of December the exam takes place in New Delhi at JNU campus. The candidates who can qualify this test, are eligible to get scholarships in Japan for higher study and also it becomes important getting jobs in Japan as well as many other Asian and European countries. The other foreign languages like French, Spanish and German are equally important for higher study as well as for job market. Thus now these foreign languages are not limited to some people – it is for all.

General News

NIST Faculty at the *Train-the-train* workshop, BBSR

Ms. Suprabha Kumari Sahu and Mr. Shom Prasad Das have successfully completed the 3 days Workshop on *Data Warehousing* conducted by Infosys Technologies Ltd, Bhubaneswar during March 12-14, 2003. The topics covered during the workshop were Data Mining, Decision Support Systems(DSS), Dimensional Modelling etc. The Infosys staff demonstrated some interesting case studies in the field of DSS and dimensional modeling.

New Appoinment

NISTians welcome Ms. Punam Priyadarshini who joined on March 01, 2003 and Mr. Mrutyu Ranjan Panda who joined on March 03, 2003 as Lab Supervisors. We also welcome Mr. Lambodar Nahak who joined on February 02, 2003 as Security Supervisor and Mr. Surendra Rout who joined on March 01, 2003 as Driver. We wish you all success at NIST.

With Best Compliment from

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Person of the Month



This issue of NISTe-news is writing about Dr Purna Chandra Biswal, a Senior faculty of Mathematics. He is the 3rd son of Mr Jagannath Biswal and Mrs. Nishamoni Biswal. He did his Master of Science in Mathematics from Utkal University, Orissa. After the successful completion of National Eligibility Test(NET) he got offer from various CSIR institutes for Ph.D. Finally, he started his research work in Indian Institute of Science(IISc), Bangalore towards the Ph.D degree. After completing Ph.D from IISc he joined NIST on December 01, 1997. He is writing a book titled *Problems in Discrete Mathematics* which is expected to be published this year. He joined BITS, Pilani in July 1999 and was there for more than two years. He then left BITS, Pilani and joined again NIST on December 17, 2002. He visited Germany in 1994 to attend a conference where he presented one of his papers. He has published 08 papers in many journals of National and International repute. His present area of research interest is *Graph Theory and Complexity of Algorithm*. He got married to Ms. Sunanda Samal in 1998. He likes to spend time in Gymnasium, playing Volley ball.



In the Next Issue.....

- National Service Scheme at NIST
- Technical Seminar Report
- Person of the Month
- Many other news, as usual

The next issue will be published on May 15, 2003. Send your message on or before May 10, 2003 to NISTe_News@yahoo.com. Thanks.

