

Message from the Director



It gives me great pleasure to welcome the 8th batch of NISTians. This batch, being the first one to be affiliated to the Biju Patnaik University of Technology, has plenty of opportunities and responsibilities as well. The opportunities are in the form of an exciting syllabus and a new credit based system with meaningful examinations and feedback. Since the entire academic calendar of the 2003 batch has already been published, it will streamline the activities. The responsibilities are quite straightforward: since this is the first time all the engineering colleges including government colleges will be under the same examination system, we have the unique responsibility of occupying the top 100 university ranks. It is in NIST's tradition to bite the bullet and I am sure this batch of 2003 will keep the flag flying.

When I see lot of camerapersons on the campus, I know that a batch is bidding us goodbye. I wish all the best to the students of 1999 batch in all their pursuits.

August 15, 2003

Sangram Mudali

Message from the Editor

One never knows how time flies. Only on the eve of the New Year do we realize that the journey of 365 days is over. Similarly when students suddenly come up to their teachers and ask them for their contact addresses, autographs, etc., then we realize that it is time to bid adieu to our final year students. GOOD LUCK to the batch of 1999 !!

I welcome the 2003 batch and wish all of them a bright successful future. Please do remember that you are joining a new family – the NIST family. NISTians are ready to provide all the help you need for making your “home away from home”.

I urge students of the 2003 batch to contribute to NISTe_news in the form of short stories, poems, jokes, cartoons, letters, etc.

August 15, 2003

Partha S Mallick

In the next Issue...

1. Highlights of BPUT syllabus
2. GATE 2004 Preparatory Course
3. NIST Disciplinary Committee
4. Person of the month
5. Many other news, as usual.....

Student Representatives

Balakrishna Gupta, Aruna Kr Tripathy, Manoranjan Jena, Bijoy Shekhar Shroff, Sunil Panigrahi, Sudhansu Sekhar Sadangi, Vivekananda Dora

Letters to the Editor

To: *nist_eneews@yahoo.com*

Subject: *hello sir*

Date: *Tue, 05 Aug 2003 13:31:18 +0500 (IST)*

From: *"amit padhy" <mr_dotcom1@sify.com>*

Sir, I would like to inform you that the name of our college NATIONAL INSTITUTE OF SCIENCE AND TECHNOLOGY is nowhere written in our college campus. People are entering the college from the backside and even on the front side, Lecture Hall Complex is written only. So I think it would be better if the name of the college is mentioned at the entrance or on top of the college building. Consider this matter in the next issue of NIST_eNews. Yours faithfully. **Amit Padhy**

Editor: Thanks, for your suggestion. We will do something quickly about it.

Date: *17 Jul 2003 15:23:04 -0000*

From: *"ajit kumar sahoon" <flywithajit@rediffmail.com>*

To: *niste_news@yahoo.com*

Subject: *magazine*

Sir, I want to get your monthly Magazine. How can I get it regularly? Is it necessary to be your student to get it? **Ajit K Sahoan**

Editor: You can read or download from our Website *www.nist.edu/newsletter*. Thanks.

Special News

Recruitment' 2003 – by different Companies

The final year (1999 batch) and 3rd year students (2000 batch) appeared before the recruitment body for selection this year. We congratulate all the successful students. The names of the companies who have visited so far are:

Name of the Company	Visited on
1. HCL InfoSystems	July 26, 2003
2. ZIIT Technology, Chennai	Jan. 29, 2003
3. Jatayu s/w, Bangalore	March 11, 2003
4. VI Microsystems, Chennai	Feb. 06, 2003
5. Losung Automation	Jun 23, 03(off campus)
6. Kanbay s/w	Aug. 2, 2003(off campus)

Some other companies will be visiting our campus shortly.

NIST Faculty to pursue PhD at IIT,Kgp

Mr Susant Das of Electronics and Communication Engineering department has now joined IIT, Kharagpur for his PhD course. He had been working with NIST since 1999. He did his M.Tech from IIT, Delhi and worked in the area of solid state electronics. He was a member of



NIST's VLSI group. He was the superintendent of Hostel-3 as well. We wish him all success.

Placement—our last month's Success

Name of the Student	Batch	Company
Subhankar Dash	1999-03	HCL Infosystems
Indira Mohanty	2000-04	Kanbay s/w, Pune
Jimut R. Sahoo	1998-02	Vest India, N Delhi
Pratik Patra	1996-2000	TCS
K. Ram Mohan Subudhi	1999-03	Infosys

New Superintendent of Hostel-3



Mr Rowdra Ghatak, Faculty of Electronics and Communication Engg has now taken over as the superintendent of Hostel 3 from July 21, 2003. We wish him all success.

ETV(Oriya) visits NIST

ETV-Oriya (Satellite Channel) visited NIST on July 18, 2003. They organized an exclusive campus based entertainment program for NIST students. This program will be telecast either in the end of August or in the 1st week of September in their *Campus* slot which is a weekly program on every Sunday at 10.05AM and every Wednesday at 10:30PM (repeat).

New Hostel for Girls

A new hostel for girls at Gopalpur-on-sea has been added – this one will accommodate about 70 students. We have named this hostel as Hostel 1-B. All NIST hostel facilities will be available. In addition to the well laid out rooms, the sea view from the hostel is amazing.

General News

Volley Ball Coaching Camp at NIST

A Volley Ball coaching camp was organized at NIST campus from July 3-25. Coaching was given by Mr Bhaskar Mishra, a regular coach of Berhampur University. Around 15 students participated in the camp. Among them, the regular players are: Vikramditya Mishra, Chitta N Prusty, Bibhu Prasad Nayak, Aruna K Tripathy, Kailash K Pradhan and Samrat Sengupta.

YOGA at NCC

YOGA program has restarted at NIST Community Center (NCC). NIST Staff and Faculty members are getting this opportunity every Sunday at 7:15AM. Mr Sai Kumar is the YOGA Instructor. Staff and Faculty alongwith their family members are encouraged to attend.

Volley ball at NIST campus

Staff, Students and Faculty members of NIST have again started playing Volley-ball at NIST campus. It starts regularly at 5:30PM and ends at 6:30PM except Sunday. All staff, students & Faculty members are welcome!!

New Appointment

NIST welcomes Ms. J Sailaja who has joined on July 21, 2003 as *Front Office Executive*. We wish you all success.

An Inspiring Letter.....

Date: 17 Jul 2003 06:32:10 -0000

From:"Lalit Mohan Patnaik"

<patnaiklm@yahoo.com>

Subject: Your mail...Congratulations!!!

To: smudali@rediffmail.com

Dear Prof. Mudali,

My heartiest Congratulations to you and the entire NIST family for getting approval of the first M. Tech course among private Institutions in Orissa. I am glad, you richly deserve it.

In this visit, I had no plans to stay longer except to visit your wonderful Institute; also I have not visited your new campus. I was keen this time since I rarely find extra time on my official visits to Orissa. I had only planned a visit to your campus because I still cherish my lovely visit long ago to your old campus. Best wishes, *LM Patnaik(Professor at IISc, Bangalore)*.

Student's Corner

NISTians earn credit

The Alumni Association of Institute of Physics, Bhubaneswar organised a debate competition at Khalikote college on August 10, 2003. NIST students performed remarkably well in the competition. All the 1st, 2nd and 3rd positions of this preliminary round competition were bagged by NIST students. The successful students are: *Sarvanu Chatterjee - (Final Yr) - First Position, Swetank Rajguru-(Final Year)-Second Position, Aruna Kumar Tripathy-(Sixth Sem) -Third Position*. Students from other colleges of Berhampur University attended the competition. Congratulations to all of you who have qualified for the final round which will be held on August 24, 2003 at Bhubaneswar. We wish you all the best for the Finals.

How strange we are!

N. Rudra P Das, Final Year

If I study hard till midnight, I am a bookworm ---If you do so, it is hard work.

If your brother gets a prize, it is his talent ---In my brother's case, it is a favour.

If my father wins the election, it is by rigging ---In your father case's it is his popularity.

If you get promotion, it is your honesty --- In your neighbour's case's, it is flattery.

If my mother uses lipstick, she is showy --- In your mother case's, she is modern.

If you buy scooter, it is your hard-earnings
--In my neighbour's case, it is by corruption.

If I listen to cricket all the day, it is nuisance
--- In your case, it is play-world.

If you go for smuggling, it is pilgrimage
--- If my go for pilgrimage, it is smuggling.
Oh! GOD, please save us!!

It is everywhere!!

Collected by **Monoranjan Jena, 3rd Yr CS.**

Kannada - *Naanu ninna preetisuttene*

Korean - *Sarang Heyo*

Latin - *Te amo*

Malayalam - *Njan Ninne Premikunnu*

Norwegian - *Jeg Elsker Deg*

Oriya - *mu tumaku bhala paye*

Polish - *Kocham Ciebie*

Romanian - *Te ubesk*

Russian - *Ya tebya liubliu*

Sindhi - *Maa tokhe pyar kendo ahyan*

Swedish - *Jag lskar dig*

Tamil - *Nan unnai kathalikaraen*

Telugu - *Nenu ninnu premistunnu*

Turkish - *Seni Seviyorum*

Urdu - *mai aap say pyaar karta hoon*

Do you know it? Subhasis Choudhury, 2nd

It is from their Advertisements.....

BPL	Believe in the Best
VICKS	Vicks ki goli lo, kich kich dur karo
MIRINDA	Jor ka jhatka dhiresa lage
LIMCA	Take it easy!
PEPSI	Yeh dil mange more
MC DOWELLS	Mera no. 1
RAYMONDS	The complete man
COLGATE	Yeh hai hamara suraksha chakra
SURF EXCEL	Dhoondte rahe jayoge
AIWA	Pure Passion
ROTOMAC	Likho script apna apna
LG	Digitally Yours
RUPA	Yeh ander ki baat hai
FLOWER	Buy one, get one free
KELVINATOR	The coolest one
TVS VICTOR	More smiles per hour
HERO HONDA	Desh ki Dhadkan
AMUL	The taste of India
INDICA V2	More car per car
FORD ICON	The josh machine
VIDEOCON	Bring home the leader

Career Corner

Job Sites **Susanta K Mahapatra**

- <http://www.efuturejobs.com>
- <http://www.mangalamjobs.com>
- <http://www.samparksearch.com>
- <http://www.oebindia.com>
- <http://www.fairlinksindia.com>
- <http://www.topsgroup.com>
- <http://www.joblineconsultants.com>
- <http://www.jobsvaley.com>
- <http://www.abbscissa.com>
- <http://www.spconsultants.com>

Knowledge Teasers

Kushal Bhut & Manmit Singh, 3rd Year

1. Which team is the ASEAN Cup Football Champion this year?
2. What is the full form of LASER?
3. What did the Bank of Sweden do to celebrate its centenary?
4. Which publication was started by B. Vishwanath Reddy in July 1947 from Chennai?
5. Mr. Sanjay Agarwal was the chairman of a company which was involved in a scam. What is the name of the company?
6. Lovers of what are called oenophiles?
7. What was developed in Germany during World War II when local bottlers ran out of the ingredients for CocaCola?
8. Which famous brand was born in Bern, North Carolina?
9. CNN stands for?
10. This company was founded in Zlin, Czechoslovakia in 1894. It is currently headquartered at Don Mills, Ontario. Name this company which has a major presence in India also.

Send your ANSWER by September 10, 2003.

Names will be published in the next issue.

(This time we got a good response. But among the responses nobody was able to provide all the 10 correct answers. Answers with Questions are given below).

1. If Coke is Big Red, which company is Big Red zero? (Lucent)
2. Big Blue is IBM. Which corporate is referred as 'Big Black'? (UPS-United Parcel Service)

3. Which is the world's First Patented product? (Epsom Salt)
4. What did Dr. Willis Haviland Carrier, an US engineer invent in 1902(Air Conditioner)
5. Who is credited as the world's largest bicycle manufacturer? (Hero Cycles)
6. Which famous corporate was founded in 1894 in Zlin and made its presence in India in 1931 and commenced the manufacturing of shoes at Batanagar plant in 1936? (BATA)
7. How do we know 'The Native Stock and Share Brokers Association' today? (Bombay Stock Exchange)
8. What is the area separating the earth's crust and mantle called? (Mohorovich Discontinuity)
9. Maurice and Richard were brothers who lent their name to one of the most successful companies in the world. Name the company? (McDonalds. They were the original Mcdonald brothers)
10. What were built under the project 178? (FIAT cars Siena, Siena Weekend and Palio)

Upgradation of Instrumentation Lab

NIST Instrumentation Lab is now equipped with state-of-the-art Distributed Control System(DCS) provided by SAP Engineers and Consultants, Pune. The system has both Pressure and Flow Control Loops and each loop is controlled by individual microprocessor based PID controllers. The control action of these controllers are supervised and controlled by a PC based supervisory controller.



Recently, the Instrumentation lab has also received a six-axis PC controlled Robot from Robix International. It can take different shapes like chemist hand, coffee maker, dancer or a snake by simply changing the servomotor position. Our *ROBOT research group* is also working towards making a new ROBOT.

Apart from these new equipment we have also several PLC's(GEFANUC and MESSUNG) and Microcontrollers (Intel 8051 and Intel 8096). We also have SCADA (Ellipse) software, Labview software together with other Instrumentation software.

NIST Publications launched

With a view of publishing quality textbooks for various engineering courses, NIST has launched "NIST Publications" which has been duly registered as an official publisher of textbooks and has been allotted an ISBN number. We are looking forward to publishing about 20 textbooks in the coming academic year.

The first two books which are being published this month are "An English Vocabulary Reader" and "A Textbook of Small C Programs" written by Dr. Ravi P. Reddy. We believe that our efforts will help to fill the need for quality textbooks for all engineering courses

Question of the Month

Do you think that CDMA is a better technology than GSM? ---- 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 "Do you think that the slowdown of IT job market will be over soon?" This time response was not so good. Among them, all went for **Yes**. We want more participation of our readers. Here is one of them...

From: "biswa sahu" MCA
<biswa_hello@yahoo.com>

Yes, Obviously, because "Every cloud has a silver lining". I know "Knowledge is power, if applied. If God shuts one door but He opens another. Slow and steady will win the race.

Bhawani Pattanaik

Dr. Partha S Mallick

Future Technology

Virtual keyboards

M Suresh

Typing out of thin air! Can you believe this? It's true. If computers can shrink to almost nothing, so can the keyboards now. Full-size, fully functional virtual keyboards can be optically projected and touched on any surface. You can type by moving fingers through air!

A key-in device is roughly the size of a fountain pen and uses advanced laser technology to project a full-sized computing keyboard to any surface. Pennsylvania-based Virtual Devices has introduced a revolutionary keyboard, called *Vkey*. The idea behind this keyboard is the use of an infrared camera that projects the picture of a keyboard on a surface while the camera tracks the movement of your fingers on the surface and structured light to interpret and analyze keystrokes and mouse functions, enabling you to compose e-mails or interact with word-processors and spreadsheets. (Source: *EFY*, April, 2003 issue).

ISRO plans moon mission

Somayana-1 (Journey to the Moon) is ISRO's largest project and it has obtained funding of Rs 3850 million. It is a unmanned moon mission scheduled for 2008. This moon mission aims to launch a low altitude (100km) polar orbiter on the indigenous polar satellite launch vehicle(PSLV) that will orbit the moon for digital images, mineralogy and chemical mapping using high resolution cameras (Source- *EFY*, June 2003 issue).

Alumni Page

From Mail Box:

Date: Fri, 28 Feb 2003 00:07:01 -0800 (PST)

From: Akash Das <ad_pal@yahoo.com>

Subject: hello sir Akash here

To: ravipreddy@yahoo.com

Dear Sir, Hope you are doing fine and in great health and spirit as usual. Only after walking out of college one realizes why people use to find faults and keep running after what you are doing and what you are not. Now I realize that people who criticize are really the well-wishers. Even today I remember that Geetika Mam had told me that I would never get a job. Well I felt very bad that day but now I realize why she told me. Well it was for that I have been giving my best and to prove her wrong. I did all that I could, and am here in a very reputed Company Slash Support India Pvt. Ltd. as a network consultant for Netgear Inc. Well our Company has got a Project from Alcatel Corp., Calabasas for their level 2 support network consultants and I am looking through to get into that team at the earliest. I have come through all the way with your blessings and I am sure I'll be something one day which all of you can proudly speak of. I completed my CCNA and MCSE and am appearing for both CCNP and Alcatel certified switch expert very soon. Regards, **Akash**

Interview

(This month we are giving the Interview of Mr Susnata Kumar Panigrahy, our 1996 batch student – NISTe_news).

Date: 8 Jul 2003 15:11:02 -0000

From: Susanta Panigrahy <susanth@digital.co.jp>

To: niste_news@yahoo.com

Subject: interview

enews: Please few lines about yourself

SP: I am Susanta Kumar Panigrahy, a NISTian of 1996 batch(EE199618007). Presently I am working with Digital Electronics Corporation Ltd., Osaka, Japan.

enews: From your NIST memories.....

SP: Memories of NIST are unexplainable, particularly for a student of the Batch 1996 it's pretty difficult to put them in words. But being from the Batch of 1996, it is really a fantastic experience. I have seen NIST even before its foundation stones were laid. 180 strangers came to an Institute to make their future. The Institute was itself a strange to many and it was a very difficult to explain to a person about the Institute. Everybody was asking whether it is a Govt. Institute or Private Institute? But the answer was 'No', it's an NRI Institute. In fact no one was aware of the Institute, nobody knew where we will land up in future, but there was some ray of hope which encouraged us till the end. Now everybody knows NIST and at least you will not be facing any problem when being asked about the Institute. That was just one memory from the OCEAN of memories. If I start memorizing all, I have to get into the Ocean and I fear I will return back or not. So this much for today.

enews: About your present job.....

SP: I am working with a company called Digital Electronics Corporation LTD., OSAKA, JAPAN. It is a medium sized company having many overseas branches, head office being located in Vancouver, CANADA. It is a product-based company which manufactures mainly Touch Panels, used for Industrial Applications. For details visit <http://www.rediffmail.com/cgi-bin/red.cgi?red=http%3A%2F%2Fwww%2Epro%2Dface%2Ecom>. I am in the Development Section and working as a Software Engineer. I am using VxWorks (Real Time Operating System) for software development. Programming Languages used are C, C++ and VC++.

enews: Any suggestions for your juniors.....

SP: Well, It is very easy job for anyone to give suggestions because it costs them nothing. It is the responsibility of those who are in the receiving side. Those who implement them into reality they succeed in life. As all of you are in NIST, I think you are loaded with suggestions and if I start giving suggestions overflow may occur. So no suggestions. But I would like to tell you something. Those who are interested in joining the IT Industry, don't have to worry much because you have the esteemed guidance of Dr. Reddy. He will teach you the tricks of driving and will take you to the driver's seat. But it's your responsibility to start the vehicle and find the way. Remember, this is the right time to learn. The more you put your efforts now, the less you have to struggle in future. But at the same time you should enjoy the student life. Remember, this is a very precious period and you should not miss a single opportunity coming your way. Study is just a part of the student's life but the most important part which will help you in future is your attitude. So try to develop good attitude and future will be yours. I think the lesson was too lengthy and boring. But the interesting part is that it did not cost me anything except few moments. All the best for your future and our NIST's prospects. OK Lets stop. Lights and Camera OFF.

Person of the Month

Ms. Indira Mohanty of CSE, 2000 batch has been chosen as the Person of the Month. Indira has come out with flying colors recently at the off campus interview conducted by Kanbay Software held at Bhubaneswar. She hails from Rourkela, Orissa. She is the daughter of Mr Goutam Mohanty and Mrs Manorama Mohanty. She has a successful career throughout her academic career. She likes painting, music, and writing. NISTians wishes her a very successful life ahead.



Research and Development

Conference Papers

1. **Suryakanta Dash** and **Prasanna Pati**, “The evolution of the Multi-tier Architecture in Software design”, Published in the *Proceedings of the National Conference on Knowledge based Automation of Software Engineering* held at Synergy Institute of Engineering and Technology, Dhenkanal, Orissa on July 15-21, 2003.
2. **P S Mallick** and **Dutikrushna Panda**, “Electron mobility in some futuristic LED materials” – Accepted for publication in the *Proceedings of Condensed Matter Days-2003* to be held at Kolkata on August 28-30, 2003.
3. **B K Dash** and **Mahesh Prasad Sahoo**, “An overview of system identification in Automatic control system” Published in the *Proceedings of the National Conference on Knowledge based Automation of Software Engineering* held at Synergy Institute of Engineering and Technology, Dhenkanal, Orissa on July 15-21, 2003.

Tutorial presented by Dr. Ravi P Reddy

Dr Ravi P Reddy presented a Tutorial on *Objects to Design Patterns - The Evolution of Objects in Software Engineering* in a National Conference on *Knowledge based Automation of Software Engineering* held at Synergy Institute of Engineering and Technology, Dhenkanal, Orissa on July 15-21, 2003.

NIST Faculty member awarded Fulbright Scholarship

The entire NIST family takes this opportunity to congratulate Ms. Manaswini Acharya, Senior Lecturer in English, on being awarded the Fulbright Scholarship by the Govt. of USA. She will be visiting the University of Virginia, Charlottesville, for a six-month period to continue her doctoral studies on “Motherly Mentors: Socio-Political Resonance in Antebellum American Narratives.” Ms. Acharya is pursuing her doctoral studies under the guidance of Dr. A. K. Purohit of Utkal University. Enroute to the UVA, she will be attending a four day workshop at Los Angeles at the Univ. of California, Los Angeles.



We wish her all the very best in all her academic endeavors and wish a happy journey! We are also looking forward to other faculty members continuing this NIST tradition of winning prestigious awards to visit the USA. First, it was Dr. Chandal Nahak who visited Old Dominion University on a BOYSCAST Fellowship, next Dr. Ajit K. Panda visited Univ. of Michigan on a BOYSCAST Fellowship, followed by Dr. Arun K. Padhy visiting Univ. of Denver on a postdoctoral fellowship and now Ms. Acharya!

An “Indian” Moment

Ganesh Puja in the Ambapua Hostel. The Puja is over and the priest is offering the sacred camphor flame (aarti) to everyone. I move back a little and allow him to pass as I am not interested in the aarti. The priest moves to my friend, Anisur Rahman. I am slightly tense and thinking “Why does this priest assume that everyone is a Hindu? Stupid guy!” Anisur accepts the aarti and takes the sacred water in his cupped hands and drinks it. Doesn’t even hesitate for a moment! At that moment, I felt proud to be an Indian! Saare jahaan se accha ye hindustaan hamara! Independent India is 56 years old on August 15th!!

Dr Ravi P. Reddy

NIST Hostels

Dr Partha S Mallick

NIST has six hostels for students, four of them are in Berhampur and two are in Gopalpur. It is compulsory for all the first year students to stay in the Hostel. From the second year onwards it is not mandatory. We have separate hostels for Boys and Girls and each hostel has a common mess. The common room of the hostels have PCs, latest magazines, periodicals, Newspapers, TV and Casette/CD player. Apart from that, students are getting Internet, Phone, Sports, Gymnasium and Library facility in the Hostels. All the students are advised to read the Rules and Regulations of Hostels from NIST Rulebook-2003. Here is a detailed list of our NIST Hostels.

Hostel – 1A (Girls Hostel)

Address : Sagar Hostel, GopalPur-on-sea, Gopalpur

Superintendent :Ms. Geetika Mudali (Faculty, Computer Sc. & Engineering)

Caretaker : Mrs Mamta Mohanty

Phone No: 0680 2242327

Hostel – 1B (Girls Hostel)

Address: Hotel Mermaid, Gopalpur-on-sea, Gopalpur

Superintendent: Ms. Geetika Mudali (Faculty, Computer Sc. & Engineering)

Caretaker : Ms. Mamta Mohanty

Phone No: 0680 2242050

Hostel – 2 (Girls Hostel)Address : Nehuru Nagar 7th Lane, Near KC High School , Berhampur

Superintendent :Ms. Geetika Mudali (Faculty, Computer Sc. & Engineering)

Caretaker : Ms. Prativa Sahu

Phone No: 0680 2214295

Hostel – 3 (Boys Hostel)

Address : Gosainagaon(Near Jagannath Temple), Berhampur

Superintendent : Mr. Rowdra Ghatak (Faculty, Electronics and Communication Engineering)

Caretaker: Mr. Manas Ranjan Biswal

Phone No: 0680 2211048

Hostel – 4 (Boys Hostel)

Address : Near Tata Benz Square(Opposite Janana Hospital), Berhampur

Superintendent :Mr M Suresh(Faculty, Electronics and Communication Engineering)

Caretaker : Mr. Sanjib Mohanty

Phone No: 0680 2221127

Hostel – 5 (Boys Hostel)

Address: Bhaba Nagar, Berhampur

Superintendent: Mr. R.K.Shial(Faculty, Computer Sc. & Engineering)

Caretaker : Mr. Ranen Nayak

Phone No: 0680 2280322

NIST Alumni meeting in Bangalore

Geetika Mudali

Our Director Prof. Sangram Mudali and Placement Director Ms. Geetika Mudali recently visited Bangalore to invite companies for campus recruitment. During the stay, a meeting of NIST Alumni was held in Hotel Park Plaza on August 7, 2003. The meeting was attended by nearly 40 alumni members, all of them are working in Bangalore in different companies like Infosys, IBM, Wipro etc. The Bangalore chapter of NIST Alumni was inaugurated and Mr Bapi Dash(1999-2001 batch) is the coordinator of the chapter. The chapter will be meeting once in six months. The objective of the chapter is to unite the Alumni and to promote the growth of NIST. This is the second chapter after the Delhi chapter. Gradually other chapters will be inaugurated in Mumbai, Kolkata, Chennai, Hyderabad, Pune and Trivandrum.

TIFAC-COREs Meet at New Delhi

Dr. Ravi P. Reddy

About TIFAC-COREs

Technology Information, Forecasting & Assessment Council (TIFAC), an autonomous Society under the Department of Science & Technology (GOI) has mounted Mission REACH (Relevance & Excellence in Achieving new heights in educational institutions) to establish TIFAC-COREs (Centers of Relevance & Excellence) in diverse disciplines in different educational institutions throughout the country. The Mission was formally launched on October 4, 2000 in the august presence of our respected Dr. APJ Abdul Kalam, the then Chairman, TIFAC and Principal Scientific Adviser to the Government of India. The Mission was started with objectives to turn out quality manpower in areas having high industrial and social relevance by creating 'world-class' infrastructure (educational and research) to support a system for turning out quality manpower.

At the heart of the Mission is TIFAC-CORE whose foundation rests on a triangular relationship between funding agency (Government), educational institution and the user organization/industries-the three most powerful pillars of economic growth. Mission is founded on the firm belief that India is too big a country to be boasting of only a few elite institutions that are/have Centers of Excellence. To be geographically spread-out across the country, none of the TIFAC-CORE is possible to be set up under Mission REACH if it is not designed to be of world class and resources (financial, technical and human) required for such mammoth efforts are not reflected in the proposal. As such no limit is prescribed for budget while seeking the proposal and it is left as a challenge to the imagination of aspiring academic institution. Thus, the Mission is totally 'objective' driven rather than 'resource' driven, the common approach so far.

The Mission targets creating a constellation of 80-100 such well-networked TIFAC-COREs throughout the country in multiple areas of Science and Technology. Through Mission REACH, TIFAC hopes fording substantially the gap between the elite institutions and the academic institutions in areas where these TIFAC-COREs are being created. While the implementation period is of three years, these Centers nucleated by TIFAC would continue to be nestled in the respective institutions and nurtured by the industrial interests, in a self-sustaining manner even beyond these three years.

Already 17 TIFAC-COREs in as many disciplines are functional and proposals for few more are under various stages of scrutiny. Today these TIFAC-COREs have acquired a brand equity enjoyed only by institutions such as IITs, in the areas where they operate.

About the Delhi Meet

The opening remarks were made by Dr. Deepak Bhatnagar, Chairman TIFAC. He mentioned that the program started by Dr. Abdul Kalam was already three years old and they were targeting a number of 100 TIFAC-COREs.

The next speaker was Prof. VS Ramamurthy, Secretary, DST. He mentioned the essential tension between depth and breadth in research –the two limiting cases being knowledge of everything about nothing and knowledge of nothing about everything. He stressed the need for distance education's role in taking the classroom to the student's home. He said that education must be research based – something we at NIST take pride in.

The next speaker was Dr. R. Chidambaram, Chairman-TIFAC and Principal Scientific Advisor to the Government of India. He said that the PM had set a growth rate goal of 8%

and for this research was a must. He mentioned that TIFAC-COREs were propelled by relevance and steered by excellence. He mentioned the fundamental conflict of interest between industry and science and how industry should take a little more risk. It will need some changes in the mindsets of both camps.

He was followed by Dr. JJ Irani, Director, Tata Sons who stressed the need for fundamental research. Said that the Iraq war was won in the labs of MIT, Caltech and Stanford. Mentioned that whereas IBM spent 5% of its annual income on R&D, Lucent spent 7%, Tata spent only 0.17%!! He talked about fighting the "second rate culture" inculcated by the administered regime. With liberalization, import of products has become easy but import of technology has become difficult. Therefore, the need of the hour is development of indigenous technology suitable to the Indian conditions. Two things are important- attract foreign R&D centers to India and get back Indian genes from abroad.

PV Indiresan, Former Director, IIT, Madras spoke about the engineering education scenario. He mentioned that there are 1208 AICTE approved engineering colleges with an approved intake strength of 385000 students requiring about 100,000 teachers. More than half of these colleges are less than 3 years old. He mentioned that there are three beneficiaries of higher education- the student, the employer and the society (represented by the government). The financial load on the student must be reduced by the employer. For example, at Harvard, only 13% of the revenue comes from student fees, the rest 87% being generated from trust funds and from government. We must think big in order to achieve this scenario. He mentioned an economic study of the major factors driving US economic growth in the post-depression era (1929 - 1982) which found that 10% of the growth was attributable to capital, 30% to education and 64% to research. Neglecting the negative factors of growth, it is obvious that R & D is a must for survival.

Dr. Kiran Karnik, President, NASSCOM, mentioned that India's claim to fame is in two things-IT and beauty!! India was first known for tea, then for poverty, next for IT, and in future will be known for Quality and Productivity. Last year IT earned 9.5 billion dollars of forex, second only to the textile industry. He said the PQRS of IT has been Productivity, Quality, Rate, Skills/Scalable (have domain skills + IT skills). At a 30% compounded growth rate the IT industry should be worth 50 billion dollars by 2005. But success breeds its own problems like the outsourcing backlash. He traced the evolution of Indian IT services from the predominantly govt. organizations like CMC in the 80s, moving to the body shopping of the 90s, to the services sector in mid 90s. Presently, we have moved to the 60% offsite and 40% onsite model and moving from services to products (creating Intellectual property). India's USP has been high end skillbase in large numbers. He welcomed the development of the BPO industry and compared it to the Udipi hotels of IT -operating on high volumes and low margins! He said that the quality of our M.Tech graduates and Ph.D's is very poor which has to change if we have to metamorphose ourselves from being the backoffice of the world to the thought leaders of the world.

On the second day, there was an address by Mr. Vepa Kamesam, Deputy Governor, Reserve Bank of India. He mentioned that the UN had specified three measures of development -- GNP, life expectancy and adult literacy. Mr. Kamesam said that these should be replaced by electricity consumption per capita and female literacy rate. Wherever female literacy rate was high, infant mortality was lower and birth rate was also lower. He also mentioned that in places where the average literacy rate was lower, the fraction of female literate was very poor. Website on TIFAC-COREs: www.missionreach.org.in

Professional Certifications at NIST
Dr Partha S Mallick

In this highly competitive world where so many people are claiming to have so many skills, professional certifications sets a person apart from the crowd. NISTians have shown their aggressive spirit in completing a number of professional certifications. Here's a partial list of NISTians having completed professional certifications. Our congratulations to Ms. Suzuki Banerjee (ELE, 2001 batch) for being the youngest certification holder at NIST!!

Siddartha BN (Faculty), Abinash Sahu (IT, 1999 batch), Suzuki Banerjee(2001 batch) --*Cisco Certified Network Associate(CCNA)*

P K Prusty(Lab. Supervisor, CSE) - *Certified Novell Engineer(CNE), Certified Novell Administrator (CNA), Microsoft Certified Professional (MCP)*

Shom P. Das & Ravi P. Reddy (both Faculty) -- *SUN Certified Trainer for Java 2 Platform*

Shom P. Das, Susant Sahu, Sudhir K. Nayak, & Ravi P. Reddy(all Faculty)-- *SUN Certified Programmer for Java 2 Platform & SUN Certified Web Component Developer*

Susant Sahu, Sudhir K. Nayak(Faculty) --- *Oracle SQL Certification (first paper of OCP)*

Many more certifications should be coming along in the near future!!

Current Affairs
Vivekanand Dora, 2nd year
July 1 -7

- India's economic growth was recorded to be 4.3% in 2002-03.
- France wins the Confederations Cup, defeating Cameroon.
- Ten US soldiers hurt in Central Baghdad due to anti US forces attack, 2 Iraqis killed.
- Ralf Schumacher wins French GP at Magny-Cours.
- Tiger Woods wins Western Open golf at Lemont.

July 8 -14

- Iranian twins(Ladan and Laleh) die at Raffles Hospital, Singapore after a 54-hour surgery to separate them.
- India at 127th spot in a list of 175 nations, according to human development report of UNDP
- Delhi Lahore bus service resumed on 11th.
- National Conference snaps ties with NDA
- Indians lose to Brazil in World-boys under19 Volleyball Championship
- India refuses to send troops to Iraq, asks for UN sanction. US shows disappointment but stated that relations would not be affected.

July 15 - 22

- Total 148 American soldiers killed in Iraq till July18th;147 had died in 1991 Gulf war
- Saddam's sons, Uday and Qusay, killed in a US military encounter

July 23 - 31

- On 26th China claims Arunachal Pradesh while Indian PM is in China, resulting in a lot of controversy.
- East Bengal beat BEC, Tero Sasana of Thailand in the final of ASEAN Club(LG) Championship
- Fiftieth National film awards announced:
Best actress-Konkana Sen(Mr and Mrs Iyer)
Best actor-Ajay Devgan(Legend of Bhagat Singh)
Best director is Aparna Sen and the best film is Mondo Meyer Upakhyan
- J M Lyngdoh and Shanta Sinha declared Magsaysay award winners

Summer Courses – 2003**Abhro Mukherjee and M Suresh**

We all wait eagerly for the summer vacation to come. This is the only time when we can breathe easy and invest our time to explore, relax and do something more creative away from the daily routine of the college. In NIST we believe in similar thoughts. We always like to think something new and creative away from the mundane rat race of only excelling in examinations. We like to see beyond those static equations which lie dead beneath the hidden books and manuals, Yes! We like to convert our strong theoretical knowledge into useful practical ones. With this thought in mind, NIST ran the three courses “EDA Tools for VLSI/ASIC Design(EDA)”, “Enterprise Application Development using Java, Apache, Linux, PHP4 and PostgreSQL (JALPP)” & “Advanced Industrial Automation Technology”(AIP).

In addition to many students of NIST, several engineers from other colleges like Orissa Engineering College, Bhubaneswar, Sanjay Memorial Institute of Technology, Berhampur, Ghanashyam Hemalatha Institute of Technology, Puri, Jagannath Institute of Technology and Management, C V Raman College of Engineering, Bhubaneswar, Sikkim Manipal Institute of Technology (Gangtok) joined these courses.

The EDA team was led by Dr. Ajit Kumar Panda and ably supported by Mr M. Suresh, Mr Susant Das, Mr RK Dash, and our students Mr. A Ravikanth, Mr. Sabyasachi Pradhan, Mr. Mihir Kumar Panigrahy, Mr. Lalatendu Rath and Mr. Arun Kumar Tripathy. The EDA course started with Analog/Digital Simulation using PSpice. The students learned from the basics to design of library. In the 2nd week, they learned about Xilinx, which is the industry standard FPGA. Students learned VHDL using ALDEC VHDL in the 3rd week of the course. They designed Arithmetic Logic Unit (ALU) of 8-bit microprocessor. Students learnt the fabrication procedure and layout design using Tanner tools in the fourth week of the Summer Training course. Apart from the theory class and labs, the students were also exposed to different VLSI companies, their requirement and status etc.

JAVA provides a free application development platform. Apache is the most popular webserver in the world and is free. Linux is fast becoming a competitor to Windows, rivaling it in power and flexibility while remaining a free product. PostgreSQL is the world’s most advanced object oriented database management system available today. In addition, an introduction to javascript and PHP was also given to enable creation of web-based solutions. The operating system was SuSE Linux and the backend database was PostgreSQL. The course conducted by a team led by Dr. Ravi P. Reddy and consisting of Shom P. Das, Suryakanta Das, Sudhir Nayak, Suprabha Sahu, Susant Sahu, B. Srikrishna, Anisur Rahman, Satyajit Patro, Sarita Patro, Laxminarayana, PR Mahapatra and other members of the NTCS team.

There were many people from industries and students who attended the Advanced Industrial Automation Technology program. This year we launched for the first time in entire eastern India a one-month summer course program in Advanced Industrial Automation Technology at NIST Center of Excellence, Bhubaneswar. Each and every module was made with utmost care keeping in mind the current trends in the field of Industrial Automation. The praise and applause we received from all the major industrial sectors and institutes were really worth mentioning. The entire course was divided into four modules. We started with the understanding of the industrial level PLCs and we carried our quest to the modern supervisory control and Data acquisition system. At the PLC level we gave hands on training with real time processes such as industrial Batch mixers, servo control of electrical motors through PLC, real time data acquisition system. Our 2nd and 3rd module was concerned with the real time applications of industrial micro controllers along with virtual instrumentation. Traffic light signal control, motor control and temperature control was some of the real time microcontroller based interfaces shown to the students. Virtual instrumentation simply kept the students spell bound when they discovered that they could make real time instruments at PC level. All these modules were followed by some rigorous brain tickling projects. The last module concerned with the SCADA applications on the real time processes. We had also taken some advanced seminars on computer-integrated manufacturing, intelligent drives, PID controllers and Distributed Control System. We have already started our expansion program by procuring a Robot and a total distributed control system module. I would like to thank Mr Bhawani Pattanaik, Mr Subhranshu Samantaroy, Mr Monoj Kumar who did an excellent job for successful completion of the summer course.

Up-gradation of Electrical Lab

BK Dash

Recently we have procured some more electrical machines and equipment, measuring instruments for Energy Conversion lab. Also we have procured ETAP software and some equipment for both Advanced Power System Lab and Power System Lab. Laboratory wise upgradation is given below.

Energy Conversion Laboratory

Motor Generator Sets and Synchronization Panel

Motor Generator set contains DC Motor and AC Generator. Two generators can be operated in parallel and load sharing can be observed. Synchronization of two or more generators can be done with the help of synchronizing control panel by different methods. This unit is of industry standard.

Other Machines and Equipment

- ❑ 3 Phase Auto Synchronous Motor
- ❑ D.C. Compound Motor
- ❑ Single Phase Capacitor-Start Capacitor-Run Induction Motor
- ❑ Single Phase AC shaded pole motor
- ❑ 3 Phase Transformers of different KVA
- ❑ 3 Phase Auto-Transformers
- ❑ Single Phase Transformers
- ❑ Single Phase Auto-Transformers
- ❑ 3 phase Inductive load
- ❑ 3 phase Resistive load
- ❑ Rheostats of different ratings
- ❑ Thyristorised based speed control unit for 5 HP DC Motor



Measuring Instruments

- ❑ Portable type electro-dynamometer Wattmeters of LPF and UPF
- ❑ Portable type MI and MC type Ammeters
- ❑ Portable type MI and MC type Voltmeters
- ❑ Multimeters
- ❑ Tachometers (both contact and non-contact type)

Contact Person: *Mr. S. Samantray or Ms. Mahasweta Mishra*

Advanced Power System Laboratory

ETAP

This is a very powerful software package, which is used for simulation of power system parameters of sub-stations and transmission line faults at different levels. This is also used to design power systems. Students do projects on Computer Aided Power System Analysis and Design. Some students are doing their BE Projects using ETAP.

Contact Person: *Prof S. K. Upadhyay or Mr. G. Panda or Mr. A. K. Barisal*

Power System Laboratory

1600 Km Transmission Line Simulator

It is used for analysis, simulation and demonstration of Transmission line and its parameters upto 1600 km length.

Switchgear

All type of switchgears are available in this laboratory. Students are given training on 'Switchgear and Protection' by LARSEN AND TOUBRO in our campus each year. Students learn about design of switchgears and protection of electrical systems.

Contact Persons: *Prof S. K. Upadhyay or Mr. S. Samantray or Mr. A. K. Barisal*

RAGGING at NIST!!!

In September 2002 issue, we published the views of NISTians on *Ragging at NIST*. This year again we have chosen the same topic and our reporters were moving around for the last two weeks to make a report on *Ragging at NIST*. Let us see what are their opinions...

Mr I Bhattacharyya, Faculty of Mathematics: From the very first day of 1st semester classes, we observe the students, whenever we see any senior student(s) with juniors, we go there, and do the needful.

Mr BK Dash, Faculty ELE: Why student will rag?? We are enough for it, Assignment, Quizzes, Series of Tests, Project work, Presentation -- really serious ragging by us!!

Dr Amalendu Pattnaik, Coordinator (BE): If we get any written complaint from any student, we take it very seriously.

Mr Premeswar Rao, Security Officer: We are always against Ragging. Some of our senior students are very helpful in this regard. Faculty and staff are doing their best for a "Ragging free" environment at NIST.

Dr Partha S Mallick, Faculty, ECE: In NIST rule book, article no. 12, it is clearly mentioned about ragging. As per Government Rule, Institute has the right to impose fine of Rs.25,000/. Our college campus is totally ragging free. Sometimes the students do it outside, but in the hostel there is no chance for ragging. This is one of the reasons why NIST makes it mandatory for 1st semester students to stay in the Hostel.

Mr. Bikramjit Majumdar, Final year: Ragging is not bad if it is in control, but we can do nothing here because of our sirs.

Mr Susanta Kumar Patra, 3rd Year: Generally at the start, new comers are afraid of seniors in many colleges, but at NIST the situation is different. Here the new comers feel free even from their first day.

Mr Arun Kumar Behera, Guardian: First, I was worried, but soon I was relieved when I came to know that NIST is a ragging free college. Yes! I got the report from various corners.

Ms. Sweta Acharya, 2nd Semester: Usually the freshers become worried of being ragged by their seniors. But the scenario is totally different at NIST as far as I have experienced. We had healthy conversations with our seniors and came to know about various aspects of the institution.

Sonu T Sekharan, 2nd Semester: On the first day, our seniors first asked our names and explained about strict discipline of NIST. That's all about ragging.

Ms Suniti Maharana, Guardian: I never got any complaint from my son regarding ragging.

Ranen Nayak, staff, Office: There is no chance for ragging here. Our whole team is working against ragging.

Mr M Suresh, Mr RK Shial, Mr Rowdra Ghatak, Faculty and Hostel Superintendent: Whenever we get any written complaint, within three days we inquire into it and give punishment. No, we not only just wait for the written complaint but also keep track of the senior students.

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