

Message from the Director



I wish all our students, staff, faculty, parents, alumni and well-wishers a Hearty Welcome to year 2004. As the mood goes, it is fashionable to talk of "India is Shining" - in that spirit allow me to proclaim "NIST is Shining". We had a very good year in which we had privilege of obtaining the AICTE approval for the first M.Tech program among all private colleges of eastern India. Our GATE 2003 and GATE 2004 coaching programs were among the highly visible training programs held at the NIST Center of Excellence at Bhubaneswar. The placement of the batch of 2003 students by our Placement Department was satisfactory given the slump in the industry. Now as the IT industry is again poised for a breakthrough, our students of the batch of 2004 are being presented with newer placement opportunities. Our alumni who number more than 1000 are spread all over the globe and have demonstrated their commitment to their alma mater by helping in placement, alumni clubs, etc. The CCNA certifications and ORACLE certification programs being run by us are a feather in the cap. Highly qualified faculty joined our Institute as faculty received Boyscast, Fullbright and Post-Doctoral awards. Computerization of our student services in the library, accounts, etc., has led to greater transparency and more student satisfaction. The Food Court got a much-needed boost with more items on the menu. The newest attraction on the campus - the Waterfall is now the preferred backdrop of all our cultural programs. Waves 2003 was as usual a thoroughly enjoyable and breathtaking event.

January 15, 2004

(Sangram Mudali)

Message from the Editor

Year 2003 - there was a feeling of cheer all around. Student participation and leadership were witnessed on numerous occasions such as ISTE student chapter sponsored SANKALP -2003, NSS activities such as tree plantation and blood camp, IEEE Student Chapter activities, Robotics Club activities and BRICS program, Entrepreneurship Club activities, SPIC MACAY, Alumni Chapters, WAVES 2003, etc. Each of these activities were organized and executed with student leadership and work was done in a spirit of volunteerism. We look forward to a more active student community which keeps the campus vibrant this year too. The New Year has begun on a high note with our Institute bagging nine prizes in the technical festival held at NIT, Rourkela, thus becoming the second highest prize winning contingent.

Hope the new year 2004 brings joy and success to all NISTians.

January 15, 2004

(Partha S Mallick)

Our Student Representatives

Aruna Kr Tripathy, Manoranjan Jena, Bijoy Shekhar Shroff, Sunita Panigrahi, Sudhansu Sekhar Sadangi, Vivekananda Dora, Rohan Gupta, and Anil Reddy.

Letters to the Editor

Date: Thu, 18 Dec 2003 14:34:54 +0000 (GMT)

From: "balakrishna gupta" <balakrishna_gupta@yahoo.co.in

Subject: hello Sir

To: "partha sir" <niste_news@yahoo.com

Hello Sir, Hope you are fine there and are busy as before. It is really nice to know that I would be henceforth working as the Alumni representative of the NIST-Enews. Thanks for giving me the chance. I hope I will do my duty as per your expectations. Another thing I like to tell is that, there are still some spelling mistakes in e-news. There is a spelling mistake in my name, printed on page 2. I hope such thing would be avoided in the future editions. Wishing you and all NISTians Merry Christmas and a Happy New Year, **Balakrishna Gupta**

Date: 6 Nov 2003 14:11:21 -0000

From: "pinaki prasad mishra" <pinaki_33@rediffmail.com

To: psmallick@yahoo.com

Subject: It's Pinaki sir

Respected Sir, Hope that everything is fine in NIST. Sir my training at ZITT is going on. As we are NISTian we all are aware of Assignments, TESTs, SEMINAR....exactly these sort of things are going on here. Believe me sir all the NISTians are doing well here. Getting enews from *nist.edu*. Your's Sincerely, **Pinaki Prasad Mishra**, Roll No. EC199917285

**Placement of the Last Month
(December 15, 2003 – January 15, 2004)**

Name	Organization	Batch
Suresh Moda	PCS, Mumbai	1999-03
Murlidhar Adhikarla	PCS, Mumbai	1999-03
Jitendra Kumar Das Mohapatra	PCS, Mumbai	1999-03
Sarbani Pal	Infosys, Technologies	1999-03
Santosh Kumar Sahu	Tata Elxis, Bangalore	1998-02

- **NISTe_news** is going to Publish a *Special issue* on account of its 2nd birthday (February 15, 2004). I request all NISTians for their contributions.

....**Editor**

Success in life depends on action, that is, on what you do and not what you feel or think, and the price of success is hard work
- *Sir M Visvesvaraya*

Special News

Superb Performance of 1999-03 batch

Congratulations to all 1999 batch students and concerned Faculty members and lab staff for the superb performance in University exams. Here are the statistics. CSE: 64 pass out of 66, ECE: 100% pass, ELE: 100% pass, EIE: 64 pass out of 65, IT: 100% pass. Net result: 298 pass out of 301(99.33%). Also we have 28 students in the Honors List. Kabita Mohapatra of EIE is the UNIVERSITY TOPPER. On the whole, the batch of 1999-2003 has graduated in a blaze of glory.

GATE on-line VST

NIST is offering ON-LINE VST (VeriSimilar Test) for GATE 2004. All information regarding the ON-LINE test is available at www.nistgate.com. GATE 2004 VST information is also available at the NIST Centre of Excellence, Sahidnagar, Bhubaneswar (Tel: 254 5154, 254 5155).

New Batch Coordinator

Mr Rabindra K Shial has taken the responsibility to work as Batch coordinators for first year, BTech program. We wish you all success.



New Course Coordinators

Dr. Arun Kumar Padhy is the new Course Coordinator of the BE/BTech program (all batches). He succeeds Dr. Amalendu Patnaik who is leaving for USA on a Boyscast Fellowship. Mr.



Siddharth Neelamani is the new Course Coordinator of the MCA program (all batches). He takes over from Dr. Arun K Padhy. NISTians wish you all success.



Some Inspiring FEEDBACK for NISTe_News...

We have received FEEDBACK about NISTe-news. Sample these: -- *Editor*

*From: T RAMACHANDRU, IAS
COMMISSIONER-cum-SECRETARY to
GOVERNOR, Orissa*

*To, Sri Sangram Mudai, Director, National
Institute of Science and Technology*

Palur Hills, Berhampur 761 008, Orissa

Sir, Thank you very much for your newsletter NISTe_News sent alongwith your letter dated 20.11.2003. Convey my best wishes to the Editorial Team. Yours Faithfully, Sd/-(6/12/2003),Commissioner-cum-Secretary to Governor, Orissa

From: Major General RK Sudan

Commandant, Army Air Defence College

*To, Sri Sangram Mudai, Director, National
Institute of Science and Technology*

Palur Hills, Berhampur 761 008, Orissa

Dear Sri Sangram Mudali, I gratefully acknowledge receipt of the NIST Newsletter. It is well laid out and very informative. Besides eulogizing the achievements of the institute and the students, information and comments on contemporary developments in the field of IT could also be included in the Newsletter. I look forward to a more meaningful interaction and wish NIST greater glories in future. With warm regards. Sd/-(10 Dec, 2003), Major General RK Sudan.

From: Prof. Amitabha Ghosh

*Department of Mechanical Engineering,
IIT Kanpur, India*

*To, Sri Sangram Mudai, Director, National
Institute of Science and Technology*

Palur Hills, Berhampur 761 008, Orissa

My Dear Sangram, Thank you very much for your letter and the latest issue of NISTe_News. I am indeed very impressed by the excellent progress made by your Institute in such a short time. It clearly shows the quality of leadership you are providing to the Institute. Since it is an institute of Science, I am quite sure that you are also in the process of developing excellent science departments. That improves the quality Teaching and Research in Engineering.

Wishing you and NIST all the very best,
Sincerely Yours. Sd/-, 10th December 2003,
Amitabha Ghosh.

From: subashbose <bose_ceeri@yahoo.com>

To: smudali@hotmail.com

Subject: e-NEWS

Date: Sun, 7 Dec 2003 08:27:34 -0800

Dear Sangram, Thanks for NIST e-NEWS, Vol-18. It was indeed a pleasure to read the publication and to know about NIST. I am sure NIST has already proved to be one the best institutes not only of Orissa but also of eastern part of India. I understand your institute has now developed a very good academic relation with Jadavpur University. I feel happy to learn about anything good happening in Orissa. Visiting Cuttack from 17th Dec to 31st Dec. If you happen to be in BBSR or Cuttack during that period I will be glad to talk to you. **Subash(Dr Subash Bose, IC Design Centre, CEERI, Pilani).**

Student's Corner

Winners of Robotics Model Contest

Kamlesh Parida, Akansha Kumar, Tanmay Ranjan Kar and Mukesh Panda of 3rd Semester participated in Robotics model contest at NIT, Rourkela and won the 3rd Prize. They competed with 8 other teams from different parts of the country. This was NIST's first ever participation in any Robotics competition. Congratulations to all the team members and Robotics Club Coordinator – Mr Srikant Panda (Faculty).

What is happiness

N Rudra P Das,

CSE(1999 batch)

For a rich, it is money

For a sparrow flying high in the sky,
it is freedom.

For a soldier, it is battlefield

For a good student, it is Exams

For me, it is everywhere,
if one can find it.

Life Collected by Deepak R Panda, 5th Sem.

It is a challenge, meet it,

it is a gift, accept it

it is an adventure, win it

it is a pain, overcome it

it is a tragedy, face it

it is a duty, do it

it is a game, play it

it is a mystery, unfold it

it is a song, sing it

it is a opportunity, take it

it is a journey, complete it

it is a promise, keep it

it is a love, enjoy it

it is a beauty, praise it

it is a spirit, realize it

it is a puzzle, solve it

it is a goal, achieve it.

This is worth sharing..Upama Kumari, MCA

In ancient Greece, Socrates was reputed to hold knowledge in high esteem. One day an acquaintance met the great philosopher and said, "Do you know what I just heard about your friend?" "Hold on a minute," Socrates replied. "Before telling me anything I'd like you to pass a little test. It's called the Triple Filter Test." "Triple filter?"

"That's right," Socrates continued. "Before you talk to me about my friend, it might be a good idea to take a moment and filter what you're going to say. That's why I call it the triple filter test. The first filter is Truth. Have you made absolutely sure that what you are about to tell me is true?" "No," the man said, "actually I just heard about it and..." "All right," said Socrates. "So you don't really know if it's true or not.

Now let's try the second filter, the filter of Goodness. Is what you are about to tell me about my friend something good?" "No, on the contrary..." "So," Socrates continued, "you want to tell me something bad about him, but you're not certain it's true. You may still pass the test though, because there's one filter left: the filter of Usefulness. Is what you want to tell me about my friend going to be useful to me?" "No, not really." "Well," concluded Socrates, "if what you want to tell me is neither true nor good nor even useful, why tell it to me at all?"

This is why Socrates was a great philosopher & held in such high esteem. Friends, use this triple filter each time you hear loose talk about your nears & dears.

Ten Great Words, Mohua Pradhan, MCA

- The most Selfish one letter word.....
" I " - AVOID IT
- The most satisfying two letter word.....
" WE " - USE IT
- The most poisonous three letter word.....
" EGO " - KILL IT
- The most used four letter word.....
" LOVE " - VALUE IT
- The most pleasing five letter word.....
" SMILE " - KEEP IT
- The Fastest spreading six letter word.....
" RUMOUR " - IGNORE IT
- The Hardest working seven letter word.....
" SUCCESS " - ACHIEVE IT
- The most enviable Eight letter word.....
" JEALOUSY " - HATE IT
- The most powerful nine letter word.....
" KNOWLEDGE " - ACQUIRE IT
- The most essential ten letter word.....
" CONFIDENCE " - TRUST IT

NIST Wins Again

The NIST Badminton Team (Men & Women) have secured the 2nd Position in the inter college University badminton tournament held on December 14-17, 2003 at Berhampur University. The NIST team (Men) comprised of Chinmoy Ku. Pattanayak (Captain), Saurav Bhuyan, Rajesh Panda, Debasis Panda, Manas Lenka and the Women team comprised of Rosalin Mohapatra (Captain), Sunita Panigrahy, Shefali Mishra. After being selected for coaching, Chinmoy K Pattanaik played in the All India Inter University Zonal Badminton Tournament held on January 3-5, 2004, at Birla Institute of Technology, MESRA, RANCHI, where his team reached the quarter-final. Congratulations to the team members.

They made the difference..

- At *CONFLUENCE – 2004*, held at NIT, Rourkela on January 10 – 11, 2004.

5th Semester: **Tapaswini Mishra** and **Niranjan Mohapatra** won the 1st prize in Electronics Department for their paper titled *Digital Image Processing*. **Aswini Panda** and **Kamakhi P Panigrahi, Sudeep Mishra** and **Deepak Ranjan Mohanty** won the 3rd prize in Computer Science. The titles of their paper were *Mechatronics* and *Unwilling Steganographic Concepts in Images* respectively. **Prafulla Kr Sadangi** succeeded in *Physicon* for his paper titled *Optical Fiber Communication using Quantum Transportation*.

3rd Semester: **Sweta Acharya** and **Saswati Jena** of 3rd Semester won the 1st prize for the presentation of their paper titled *Network Address Translation*, **Rakesh Parida** and **Ritesh K Dash** got the 2nd prize for Grid Computing. Atul Kumar Chopdar and Rajesh Panda secured the 3rd prize for the paper *Security Expose*. **Richyyati Mishra** and **Abhishek S Choudhary** bagged the 2nd prize in another session. **Kamlesh Parida** and **Akansha Kumar** were given consolation prizes.

- At *SITAR - 2003* held at Nagarjuna Institute of Technology, Vijayawada in December 2003.

Bharat Bhusan Ray(EIE) and **Anuka Bindhani**(ECE) of the 3rd Semester bagged the 1st Prize in technical Paper Presentation Competition(ECE) in *Sitar-2003*. *Sitar-2003* is a National-Level Techno-Cultural Festival conducted by Nagarjuna Institute of Technology, Vijayawada. There were 64 papers from all over India in the ECE Department. The topic of their presentation was *Airspace Monitoring System*.

Congratulations to all of you.

You cannot teach a man anything; you can only help him to find it within himself.

--- Galileo



Waves 2003

Indraneel Mukhopadhyay

It was 10th of January 2004, and everybody was in high spirits. Yes it was time for WAVES - 2003. The atmosphere at NIST was totally different. It had a extra burst of energy, enthusiasm among everybody. It seemed that people had made a promise to forget everything for these two days i.e. 10th and 11th. The function started by ceremonial lighting of the lamp by Mrs. Geetika Mudali and Dr. Amalendu Pattnaik. After which WAVES 2003 was officially kicked-off with the inaugural speech by our Director Mr. Sangram Mudali followed by our Placement Director Mrs. Geetika Mudali.



The opening session started off with classical *Odissi* dance, which was followed by songs, mimicry and skit. As the sessions progressed, the



talents of NISTians, which remains hidden during the normal hustle and bustle at NIST due to the pressure of studies, became more and more visible. From classical dance to mimicry to modern dance it was hard to



believe that participants had only 2 days to prepare for the whole event. Each and every event was unique in itself. For example *Volte-Face* where the participants are given a topic and they have to talk for 30 seconds for the topic and 30 seconds against the topic. *Antakshari*, debate, group dances, songs, *admad* show, skit, dumb charades, quiz and *housie* were other events, which dominated both the days. There was prize distribution for the competitions conducted at the Hostels too.

Faculties were also not far behind the students. They actively participated in skit, dance, *admad* show and even in Fashion show with the students. The MC's and the volunteers kept on working hard to control the audience and saw to it the proper sequence of the WAVES was not disrupted. Apart from this the students participated in various food stalls, which catered to the hunger of the audience. There were stalls selling *dosa*, sweets, flowers and even stalls where you can request a music or dedicate a song. It was a place where students had their enjoyment to their hearts fulfillment.



Congratulations to all the participants, event committee members whose joint effort made the



WAVES - 2003 a grand success. A special thanks to Mr. Vinay Das for coordinating the whole program (Student Activity Center) and Mr. Subhendu Das for the facilities. Last but not the least one should not forget to thank the audience who encouraged the show constantly. Now one has to wait patiently for a long year to go for WAVES – 2004 to arrive and again have the volley of fun.

NIST Robotics Club Srikant Panda, Coordinator, NIST Robotics Club

Yes, we have made a humble beginning but we will never stop to be ambitious. The



beginning was made when our Director asked me and Bhawani Patnaik to if a Robotics Club with some clearly defined activities can be started at NIST. We jumped into action searching the net for products and e-mailed Prof. Amitabh Mukerjee of IIT, Kanpur, for guidance. Thus arrived the first LEGO kit and Bhawani had already procured the 6-axis robot earlier to include in our robotics stuff. The beach festival at Gopalpur was just the right opportunity to showcase our newest fad – Robotics. With the assistance of Mr. Bhabani Rout (hardware engineer) and Susant Mohapatra (web expert) we decided to showcase the following robots: a 6-axis robot to be configured to prepare coffee, a LEGO robot to be designed as a wall climber, a pc-based robo-dozer, an automatic tracking system, a touch

screen application, an image mixing and editing application using digital camera and a flash animation of NIST and other workshop movies on robotics to be shown using the projector. Robotics Club student volunteers ably assisted by Ms. Suchilipi Nepak, Mr. Monoj Kumar, Bhabani Rout and Mr. Susant Mohapatra, we set off for the Gopalpur beach festival. After sweating it out for more than four hours, we got everything wired up and then the stall was made open to the public. Within a few minutes it was crowded like anything and our volunteers did a very good job by patiently answering the queries of all the visitors. We continued the show for five days with the same vigour and enthusiasm. I thank all those who have contributed to the success of the show.

The next event of the club was the BRICS workshop conducted in collaboration with the BRICS club of IIT, Kanpur. 7 *bricsters* from IIT, Kanpur arrived on 13th December to conduct a 3 day workshop at NIST and two one-day workshops in nearby schools of Berhampur. The workshop started on Sunday 14th Dec with 44 students of NIST. The first day had a 7 hour session which included brainstorming and preparing working models from junk materials. The second day again started with brainstorming for LEGO workshop. The



brainstorming concluded with the theme for the workshop as *Orissa's Culture & Heritage*. The 6 groups of NIST had to prepare 6 robots which should exhibit Orissa's culture. The task was tough but NISTians worked hard inspired by the "never give up" attitude from the IITians to prepare 6 robots as *Odissi/Sambalpuri dancer, hanuman vatika, Haria the potter, farming system* in Orissa, *Rath Yatra, giant wheel* and *columbus* of beach festival, to depict Orissa's culture. On the 3rd day the participants were engaged in programming the robots with comps to perform specific actions. The final presentation was made at 4PM on 16th December in the library where the guests of honour were our Director and Deputy Director. The club has now set its goal on bagging a prize at the Techkriti Robotic Competition to be held at IIT, Kanpur.

Responsibilities of an Engineering Teacher

(Collected from ISTE Newsletter, Sept./Oct., 2003, written by ISTE President)

Following are some of the responsibilities which a good engineering teacher should follow during his teaching career.

1. He will keep himself informed about current advances and developments in his fields, will teach new subject matters as they become pertinent, and will discard subject matters which have become obsolete.
2. He will thoroughly review all work and performance of students, will keep complete and accurate student records and will grade students honestly and carefully on the basis of his records, without regard to personalities or other extraneous factors.
3. He will perfect his teaching techniques to the outmost, and to this end he will cultivate and fully utilize the resources of his personality, will himself about auxiliary teaching devices and will use them whenever there use is feasible.
4. He will counsel with the individual students confer with him, will go patiently and comprehensively into each student's problems, and will work with him until he and the student feel that satisfactory result has been achieved.
5. He will so exert himself both in teaching and in research or other professional activity, as to accomplish him maximum overall effectiveness.
6. He will inspire his students with the ethical standards of his profession, by either formal or informal instruction; and he will support his teaching by his own superior standard of ethical deportment.

Future Technology

Quantum Confined Atoms(QCA)

The emerging field of Nanotechnology is opening a new window for device applications of novel nanocrystals. Nanocrystal Technology in the USA have succeeded in confining a single atom inside a nanocrystal. This structure known as "Quantun Confined Atom(QCA)" can become the building block of new devices. A quantum confined atom is an atom or an ion trapped within nanocrystal cage. In this structure the atoms of the cage modify the properties of the atom they are confining. When phosphorescent ions(ions that emit visible light of certain color when light of different color or UV light is shone on them) are caged it is found that they generate 20 times more light then conventional phosphors. This dramatic enhancement of luminescence efficiency is expected to have an impact on all optical devices such as light emitting diodes(LEDs), lasers, displays etc. The characteristics energy and wavelength of the photon emitted by the QCA in an electronic transition is modulated by the dopant(Tb^{3+} and Eu^{3+} giving red and Green emissions respectively) and luminescence efficiency of the extrinsic activator-ion increases as the size of the host nanocrystal decreases.

Optical excitation of QCA can be achieved using UV light or coherent light sources like an Ar⁺ LASER. It is demonstrated that continuously illuminated Eu³⁺ doped Y₂O₃ nanocrystals under go an on-off blinking behaviour. This phenomenon is unique since unlike the binary on-off behaviour of single molecules or quantum dots, these nanoparticles exhibit three well defined bright states or optical logic levels. This suggests novel possibilities using a 4 bit photonic paradigm for nano-scale photonics, optical logic and information storage. (*Courtesy: Journal of IETE, Sept./Oct-2002, For more materials, Contact-Dr Partha S Mallick.*)

Nano-scale digital chip design

Computer chips will get smaller, more powerful, connected, and pervasive. They will bring digital intelligence into all kinds of objects and spaces. Cadence is heavily into nano-scale design. According to its acting country manager for India, "Cadence is breaking new ground in digital design, System on Chip(SoC) functional verification, custom/analog design, design for manufacturability and silicon design-in. The company has recently launched the encounter platform, the RTL-to-GDSH architecture for nanometer-scale digital design implementation. The encounter system combines silicon virtual prototyping and detailed IC implementation into a unified architecture with a single-in-memory data model and user interface. The latest version of Encounter platform supports both Sun and Linux, and was recently voted the EDN Information of the year Award (*Courtesy-EFY, June 2003*).

Question of the Month

Do you think that our country needs more number of IITs and IIMs? YES/NO

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

Last Month's Poll

The Question of the last month was "Do you think that BPUT is on the right track for implementing "Quality Engineering Education" in Orissa?" We have received a good number of responses this month. Most of them went for YES. Here are some of them...

"baratam satish kumar" <satishindia1@rediffmail.com

Yes, in my opinion BPUT is on the right track for implementing "quality engineering education" in Orissa because although it appears to be very hectic, the entire syllabus is properly designed.

From:"ronak samantaray" <ronakray1984@yahoo.co.in

No, According to me BPUT is not OK because of its high standard. My son's exam has gone very bad because of the question pattern. Through this type of questions, BPUT is only harassing our children mentally. I hope that your college should take severe action against them. Thank you.

From: "abhitabya pattnayak" <liku_crazy@rediffmail.com>

Yes, Quality education is the backbone of a developed nation/state, and quality education in engineering & technology is most demanding in the present situation, thus BPUT is on the right track. Producing just 5% of the country's engineers Orissa is way behind the other states, certainly BPUT will be able to increase the above figures. More than anything else it will be the moral booster for its quality course for the engineering students of Orissa, so that they can compete with the best brains of India and abroad. The course studies of the 1st year is very judiciously selected which is comparable with the best universities/institutes in India. But BPUT should make sure that the transition of the new system from the old system is made smoothly and in right spirit. Thanks. **Abhitabya Pattnayak, 1st Year.**

"Mohua Mallick" <mahuadasgupta2002@yahoo.co.in>

Yes, BPUT is running on the right track. The syllabus, academic calendar, question pattern, evaluation process are pushing students towards hardwork. To win the global challenges, engineers have to opt for *Real Hardwork*, which is being realised by BPUT. If we present good notes and GOOD question papers to the students, 100% students will pass---that's true. But is that the solution? In fact, that is an invitation to disaster. BPUT examination questions are discouraging all types of *spoon feeding*. If the students can't practice self techniques for problem solving right now — how will they take up the challenges for solving bigger problems in future? BPUT is offering a challenge to all engineering students/colleges of Orissa. If you are capable, prove yourself. Be ready to fight and win. Go ahead!.

From: "smita padhy" simply_india2003@yahoo.com.au

Yes, Reasons are, the course provided and examinations by B.P.U.T is the need of the day. Orissa was lacking such a type of application based Engineering course. It will create innovative minds. So I am in support of this syllabus. **Smita Padhy, 1st Sem.**

Research and Development

Research Paper

1. **B Ganguly**, Kamal Krishna and Abhijit Mukherjee, *Electronic and Optical properties of ZnIn₂Te₄* - Accepted for publication in **Physica B**(An European Journal of Elsevier Science) in December, 2003.

Conference Paper

1. **Ranjan Mishra** and **Jagannath Mohanty**, *Dynamic Bandwidth Management System for Optimum Data Transmission using Optical Fiber Technology*, accepted for publication in the proceedings of the *National Conference on Control, Communication and Information System*, to be held at Goa College of Engineering , Farmagudi, PONDA, Goa at January 23-24, 2004.

Invited talk presented by Dr Ravi P Reddy

Our Deputy Director **Dr Ravi P Reddy** presented an invited talk titled *Where not to use ANN and GA* on January 2, 2004 at IGIT, Sarang, Orissa.

Tutorial presented by Dr Amalendu Pattnaik

Dr Amalendu Pattanaik and Prof. R K Mishra presented a Tutorial in CODIS-2004 on January 8, 2004. The topic of their tutorial was *ANN in Antennas*.

Conferences Attended...

- **Dr Ajit K Panda** and **Mr M Suresh** attended the 17th *International Conference on VLSI Design and 3rd International Conference on Embedded System Design* held on January 5-9, 2004 at Mumbai.
- **Dr Amalendu Pattanaik**, **Dr Partha S Mallick**, **Mr Dutikrushna Panda** and **Mr K C Sahu** attended the *International Conference on Communications, Devices and Intelligent Systems(CODIS-2004)* held on January 8-10, 2004 at Kolkata. Mr Dutikrushna Panda and Mr KC Sahu presented their paper.
- **Mr B K Dash** and **Mr Subhranshu Samantray** attended a short term course titled *Soft Computing and their applications* sponsored by AICTE and ISTE held at IGIT, Sarang from December 22,2003 to January 3, 2004.

- **Mr Rabindra K Shial, Mr Siddartha B Neelamani and Mr Indraneel Mukhopadhyay** attended the International Conference on Information Technology – 2003 (CIT-2003) held at Bhubaneswar in December 2003.
- **Mr Ranjan Mishra** attended the *International Conference on Microwaves, Antenna Propagation and Remote Sensing* held on December 17-19, 2004, at Jodhpur India and presented a paper.
- **Mr Jagannath Mohanty** attended the National Seminar of ISTE on *Reaching the unreached through Technical Education* held on December 27-30, 2003, at Coimbatore, India.

Alumni Page

From Mailbox:

Date: Wed, 14 Jan 2004 15:01:09 +0530

From: "Raghu Nandan Mohanty" <rmohanty@kanbay.com>

To: akpanda62@hotmail.com

Subject: Sharing experience at Kanbay

Sir, Wishing you a very Happy New Year as well as to the NIST family. We are at present going through the training period at *Kanbay*, which is quite tough. However the experience is great. Here also we have to go through daily quizzes and assignments, but they are hardly new to us as we had the 4 years of tough experience with us. Thanks to the module designed for the students at NIST, we are able to handle everything. The training period will continue till Feb 14th after which we will be absorbed in projects. However we are still not aware of our posting. Hope your good wishes are always with us. Regards, **Raghu Nandan Mohanty**, Associate Consultant, Kanbay, Pune.

Interview

(This month we are giving the Interview of Ms. Reshma Rout of 1996 batch student who is presently working in Infosys Technologies Ltd, Bangalore – NISTe_news). Reshma was a University topper and a all-rounder par excellence.

From: "reshma rout"<reshma_rout@infy.com>

To: sunita panigrahi(eneews representative)<niste_news@yahoo.com>

Subject: interview



e-News: Pls.. few lines about yourself...

RR: I am Reshma Rout, the first batch of NIST (CSE) - I believe in independent thinking and doing your best in whatever you do.

e-News: About your present job...

RR:- Currently working in Infosys Technologies Ltd, Bangalore for the Banking business Unit; presently working on Finacle E-channels and E-corporate for a release for a bank in Jeddah. Designation - TPlanner.

e-News: How did you reach there....

RR:- My resume was sent by the Placement dept of our college to *Infosys* - I was called for a written test and interview and got the appointment letter.



e-News: About your NIST memories please...

RR- Those early days when we had a half constructed building which we called as our classroom and half of our attention being on the water tickling from the ceiling - it was fun. I will always remember the encouragement my teachers gave me - those pep talks by Reddy Sir, a word of encouragement given by Panda Sir, Padhy Sir, by our Director, Geetika Ma'am, every single teacher who sincerely wished to see NISTians on top.

e-News: Any suggestions to juniors...

RR: I feel really happy when I get a mail from a NISTian saying Thanks *didi*, I got a call for the written test and happier when they write back saying they got selected. I want to reiterate what I write to my juniors - NIST has provided you with a very good infrastructure and ambience - its up to you to make the best use of it and give in your best - Work hard, be optimistic and never give up. Thanks and regards.

Career Corner

Knowledge Teasers

Kushal Bhut & Manmit Singh, 3rd Year

1. Which British bank is referred to in one of the Asterix books ?
2. What does BSA stand for as seen in BSA SLR cycles?
3. Emile Jellinek is a part-time salesman who worked for Daimler. He was a keen racing driver and agreed to order 36 cars from Daimler if they were named after his daughter. A famous brand was born then. What's that?
4. What name is derived from the Persian for 'Huge sheet of water'?
5. The medieval dynasty of Yelahanka Prabhus is said to have founded which city in 1537?
6. Which famous brand was bought in India by Smithkline Beecham from Duphar Interfran for Rs.400 million?
7. Forte Hotels has a division which runs a chain of hotels. Which famous hotel chain are we referring to?
8. This famous university is the only major university in the USA named in honour of a teenage boy. It is named after a 15-year old boy who died young. His father, a Railroad tycoon, gave money to the school to honour his son's memory. Which university?
9. SAARC meet -2004 where it was held?
10. Which American novelist recently lost a legal battle to prevent the telecast of the Rs. 60 crore mega serial *Karishma* by Sahara TV?

Send your ANSWER by January 10, 2004. Names will be published in the next issue.

(This time the response was encouraging. But among the responses no one was able to provide all the 10 correct answers. Answers with Questions are given below).

1. Which animal is the largest member of the Pig family?(The Hippopotamus)
2. Captain Haddock is the President of an organization called SSS. What does SSS stand for? (Society of Sober Sailors)
3. What is the Full name of Mahatma Gandhi?(Mohanlal Karamchand Gandhi)
4. Which company started by Finnish engineer Fredrik Idestam as a wood pulp mill and paper manufacturing and then changed itself to a telecom major? (Nokia)
5. The road outside the *Chicago Art Institute* was originally called *Michigan Avenue*. Now it has been renamed after an Indian. Who is he?(Swami Vivekananda)
6. In 1979, the Nobel Prize winners for medicine Sir Geoffrey Hounsfield and Allan Cormack were neither doctors nor physiologists. Why were they then awarded the Nobel Prize? (For inventing the CAT scan)
7. Name the mascot of Asian Paints created by R. K. Lakshman?(Gattu)
8. Expand JAIN (TV)? (Joint American Indian Network)
9. *Dus Capital* written by whom? (Karl Marks)
10. *Begam Khaleda Zia* is the Prime Minister of which country?(Bangladesh)

Current affairs

Vivekananda Dora

Bush scraps steel tariffs

December 6: US President George W. Bush has scrapped the controversial steel tariffs 16 months ahead of the schedule. It has averted a trade war with Europe & Japan. This will result in a possible political backlash.

Dada Saheb award

December 9: Film star Dev Anand has been selected for the *Dada Saheb Phalke* award for the year 2002.

Saddam Captured

December 14: US troops captured the deposed Iraqi President, Saddam Hussein, near his hometown Tikrit, without firing a single shot. He was found in a spider hole at a farmhouse cellar.

FIFA award

December 15: Zinedine Zidane was voted the *FIFA player of the year 2003* for the third time beating out Henry Thiery..

India wins down under

December 16: After 22 years, India defeated Australia by four wickets to win a test in Adelaide, Australia.

Boeing launches "Dreamliner"

December 17: Boeing company is set to book orders for its *Dreamliner 7E7* jet, to invigorate its sagging jetliner business.

Earthquake in Iran

December 26: 5000 to 6000 people were killed in a massive earthquake that completely destroyed Iran's southeastern city of Bam. More than 30000 people were injured and 60% of the buildings had collapsed. Later estimates have put this figure to 20000 dead and 70000 injured.

New L&T CMD appointed

December 31: A. M. Naik was appointed chairman and managing director of L&T.

SAARC meet, Islamabad

January 1: South Asian Association for Regional Cooperation(SAARC) nations today approved the draft for South Asian Free Trade Area(SAFTA) framework treaty as well as additional protocol to the existing regional convention on the suppression of terrorism.

Despondency is not religion, whatever else it may be. By being pleasant always and smiling, it takes you nearer to God, nearer than any prayer. - *Swami Vivekananda*.

Person of the Month

Mr. M Suresh, one of our senior faculty members in Electronics Engineering department, is the Person of the Month. He joined NIST in May, 1998. He did M.E in Electronics and Telecommunication Engineering from Jadavpur University and BE in the same discipline from Andhra University. His area of specialization was Digital Logic Circuits for his M.E degree. His current research interest is in VLSI Design. He is one of the key members of NIST's VLSI group. He is also a member of IEEE, ISTE and VSI (VLSI Society of India). Apart from serving as Hostel Superintendent#4, Batch Coordinator,



Suresh has been working as an active member of NIST GATE Steering Committee and NIST Disciplinary Committee. He has played an important role in establishing the DLC and Microprocessor Laboratory at NIST. He has shown excellent performance many times in his teaching career both at NIST Berhampur and at GATE classes at NCE, BBSR. He is also one of the most active members of NIST's Summer Training Courses. He often goes beyond the call of duty to serve the interests of NISTians. He hails from a small town of Mahabubnagar, Andhra Pradesh. He is the eldest son of Mr. M Srinivasulu and Ms. M Subhadra Devi. He received a state level merit scholarship for his excellent result at secondary level. He got married to Ms. Sucharita on December 9, 2001 at Hyderabad. He is only the faculty member of NIST who does not miss enjoying any *Hindi* or *Telegu* film at Berhampur. His hobbies are having friends, watching TV, playing table tennis and Volley ball. We wish him all success for all time to come.

Highlights of January 2003....

1. Report on Waves-2002.
2. CIT 2002(Co-sponsored by NIST) – a report.
3. Sanjarekha Pradhan of 2000 batch was the person of the month for her brilliant result in semester exam.
4. A team of 16 members from Philippines, Vietnam, Afganistan, Nigeria, Jordan, Fiji and Myanmar visited NIST on December 21, 2002 – a brief report.

In the next issue....

- Summer Course – 2004
- 2nd Birthday of NISTe_News
- GATE 2004 – Student's Feedback
- Person of the month
- many other news, as usual

Never be weak, you must be strong. You have infinite strength within you.

----- Swami Vivekananda

Do U Know?

We, the Indians, are among the half a dozen countries that put satellites into space; we are among the few that have manufactured guided missiles; we are among the three or four that have put supercomputers together on their own; we are among the few that have developed nuclear weapons; our scientists have done excellent work in imaging from space (*Source: Indian Express: January 4, 2004*).

NIST is providing Diploma course in VLSI Design and Engineering.

(Minimum Qualification is ME/ M.Tech /BE /B.Tech /MCA /M.Sc(Electronics Science).

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GATE – 2004

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*The next SPECIAL issue will be published on February 15, 2004.
Send your message on or before February 10, 2004 to
niste_News@yahoo.com. Thanks. ----- NISTe_news*