THE NANO TRIBUNE
PEERING INTO THE FUTURE

NEWS AT HOME
A recap all of 2017’s events at Amity Institute of Nanotechnology, including seminars conducted by industry leaders

STUDENT ACHIEVEMENTS
Achievements of our students in various competitive avenues in Amity and beyond

FACULTY ACHIEVEMENTS
Outstanding feats of the distinguished faculty at Amity Institute of Nanotechnology in Nanoscience research & industry, Awards, Research Grants, High impact research Featured in News & Publications, and more.

ALUMNI INSIGHTS
Learn what three graduates from Amity Institute of Nanotechnology had to say about the industry, life after college, and what their advice is to current AINT students

GLOBAL UPDATES
Exciting breakthroughs and updates in Nanotechnology research from around the globe

SPECIAL COVERAGE
PM Modi’s plan for a New India by 2022 is being spearheaded in universities across the country by Indian fusion band Nasya

FROM THE DIRECTOR'S OFFICE
Nanotechnology is emerging as one of the most fascinating areas of research, bridging together different branches of science with tremendous potentials of applications.

The distinguished and enthusiastic faculty at AINT strives for excellence in education, training students in different streams of nanotechnology and application oriented high impact research for societal needs.

Collaboration with scientists and academicians within the country and the world across, AINT covers the disciplines of physics, chemistry, materials science, biology and medicine at nanoscale.

AINT graduates are leading successful start-ups as entrepreneurs and contributing to building India. A good number of the Alumni are pursuing bright research career in several renowned international universities and laboratories.

I am pleased at the initiative taken by the students of Amity Institute of Nanotechnology in guidance of Dr. Ranu Nayak to come up with the first six monthly magazine of AINT activities, highlighting the academic and extra curricular achievements of students and faculty.

Prof. D.K. Avasthi
Director, Amity Institute of Nanotechnology
NEWS AT HOME
RECAP OF EVENTS STRAIGHT FROM AMITY INSTITUTE OF NANOTECHNOLOGY

AYF: NANOTRON

Amity Youth Fest (AYF) is one of the largest University festivals in the Delhi-NCR region. NANOTRON, a series of challenges to test the participants’ mental acumen, was AINT’s offering to the smorgasbord of fun activities happening around campus.

ORPHANAGE VISIT
FACULTY DEVELOPMENT PROGRAMME

INDEPENDENCE DAY: POSTER MAKING

ICAMMS | AMITY DUBAI

International Conference on Accelerators in Material & Medical Sciences (ICAMMS) was a conference on particle accelerators held at Amity University, Dubai from 5th to 7th October. This year’s conference was jointly organized by Amity University’s Noida and Dubai campuses.
SEMINARS AT AINT
BY EMINENT NANOTECHNOLOGY AND MATERIALS SCIENCE RESEARCHERS

DR. PRADEEP ROHATGI
31st January, 2017
Metal Matrix Micro-Nano Composites and Syntactic foams. A pathway to ultralight, energy absorbing, self-lubricating, self-healing materials

UNIVERSITY of WISCONSIN

DR. HIROSHI AMEKURA
22nd February, 2017
Irradiation effects of MeV C60-cluster ions on SiO2 and embedded metal nanoparticles

NIMS
National Institute for Materials Science, Tsukuba, Japan

Dr. Avasthi and Dr. Amekura (2016)

DR. YOGENDRA KUMAR MISHRA
23rd March, 2017
Flame made structures for advance nanofabrications and smart technologies

Christian Albert University, Kiel, Germany

DR. AMARJEET KAUR
4th August, 2017
Journey of Conducting Polymers From Discovery to their Applications

University of Delhi

DR. D. KABIRAJ
25th August, 2017
Engineering nanoscale structures by ion beam

IUAC, New Delhi

DR. TRISTAN D. CLEMONS
6th February, 2017
Multimodal polymeric nanoparticles for the treatment of cancer and prospects for their application in burn injuries

THE UNIVERSITY OF WESTERN AUSTRALIA

DR. TUSHAR KUMERIA
3rd March, 2017
Potential Applications of Nanoporous structures of Silicon and Alumina

UC San Diego

DR. JOHN E. MOSES
4th May, 2017
Advances in Click Chemistry

LA TROBE UNIVERSITY
MELBOURNE, AUSTRALIA

DR. RAJENDRA SINGH
5th April, 2017
Investigation of current transport processes in graphene GaN and nanoscale GaN Schottky barrier diodes

iit delhi

DR. SUBHASHIS GHOSH
8th September, 2017
Is ZnO the most suitable future multifunctional electronic material?
STUDENT ACHIEVEMENTS

**AMITY HUMAN VALUES QUARTER POSTER MAKING**

Shikha Sharma & Manjari
BEST POSTER

Pawan Bhoyar & Mayukh Tikadar
BEST POSTER

Mayukh Tikadar and Pawan Bhoyar awarded Best Delegates by Mayor H. S. Gohalwaria at Dr. Kalam MUN '17 Ludhiana

**SLOGAN WRITING**

Alekhya V
BEST SLOGAN

Dishant Nigam & Abhinav Arora
BEST SLOGAN

Arha Sultana
BEST SLOGAN

**INDEPENDENCE DAY POSTER MAKING**

Harshita Pal, Shrutika Sharma & Kh. Dicken
BEST POSTER

**REPUBLIC DAY POSTER MAKING**

Mayank Yadav
BEST POSTER

Smita Kataria
2nd Prize

**NEW YEARS POSTER MAKING**

Harpreet Sondhi
BEST POSTER

Shikha Sharma
2nd Prize

Shikha Sharma, Manisha Kumari & Ankita Sinha
BEST POSTER

**INDEPENDENCE DAY STREET PLAY**

Osheen Singh, Karishma Singh, Mallika Tyagi, Ria Hemkar, Mayank Yadav, Navakanth Challagula & Mayukh Tikadar
BEST STREET PLAY

**MILITARY TRAINING CAMP**

Prakhar Sahay
BEST POSTER at International Conference on Accelerators in Materials and Medical Sciences, 2017, Amity Dubai

Kritika Pandey
BEST POSTER at International Conference on Nanotechnology in Energy, Nano-bio Interface & Sustainable Environment, 2017, Amity Rajasthan

**DEBATE**

Saniya Salathia
BEST DEBATER
AMITY ANNUAL SPORTS MEET
SANGATHAN 2017

Badminton
Chitrakshi Bhardwaj
Punya
GOLD
GOLD

Kho Kho
Sai Prasad
Yash Gupta
GOLD
GOLD

Sirohi Walia
Bronze Softball

Vinoth Kannan
Kaashi
BRONZE
BRONZE
Chess
Chess

Vinoth Kannan, Punya, Sirohi Walia & Yash Gupta with Dr. D. K. Avasthi, Director, AINT (inset left to right: Sai Prasad and Chitrakshi Bhardwaj)

Conference Presentations

ICONN 2017
International Conference on Nanoscience & Nanotechnology,
9th to 11th of August, SRM University Chennai
Structural Elucidation of Template-less Gold Nanostructures on Indium Tin Oxide Towards Electronic Properties
-presented by-
Sumaya Nisar, Isha Fuletra, Aakshi Jairath, Sheetal K. Bhardwaj, K. Asokan, & Dr. Tinku Basu

Electrochemical Ultra-Low Detection Of Arsenic Using Gold Nano-islands
-presented by-
Isha Fuletra, Sumaya Nisar, Punya Saluja, Sheetal K. Bhardwaj, K. Asokan, & Dr. Tinku Basu

ICAMMS 2017
International Conference on Accelerators in medical & material sciences,
4th to 7th of October, Amity University Dubai
Optimization of Manganese doped ZnS nanoporphor for optoelectronic application
-presented by-
Prakhar Sahay

Study of ZnO/CdS core shell nanostructure using synchrotron source
-presented by-
Harpreet Sondhi

ICNIB 2017
International Conference on nanostructuring using ion beams,
4th to 7th of October, Devi Ahilya Vishwavidyalaya, Indore
Ion Beam modification and characterization of ZnO: A review
-presented by-
Prakhar Sahay

Synthesis and characterization of Ni, Cu codoped ZnO nanostructures for optoelectronic applications
-presented by-
R Priya

R. Sriram wins a Talent Hunt at Amity Youth Fest ’17 with a Beatboxing performance

IET Events at Amity

IET & SAFE Environment Day Celebration 2017
Pawan Bhoyar & Harpreet Sondhi attended talks on energy conservation

IET Present Around the World (PATW) Competition 2017
Sudiksh Srivastava, Navakanth Challagulla & Harpreet Sondhi presented their topics

On Campus Regional Fest 2017
Daksh Bhartendra & R. Sriram attended the event. R. Sriram won the 1st prize in the talent hunt event

Youth Professional Congress 2017
Dr. Ranjit Kumar attended the discussions held at the Institute of Engineers Bhawan, New Delhi
AINST in the NEWS

New paper-based sensor can quickly detect drug overdose
Dr. J. Narang in Press Trust India
Read article here

New reusable sensor can detect dengue at an early stage
Dr. J. Narang in Financial Express
Read article here

Nanosensor for diabetes management
Dr. Utkarsh Jain in Atlas of Science
Read article here

AWARDED PROJECTS (worth 2.43 crores in 2017)

L. M. Bharadwaj, T. Basu, A. Mathur, A. Bhattacharya
Sponsor: ICAR
Funding: 108 lakhs
(Indian Council of Agricultural Research)
Nano-based detection of organophosphate pesticide using metalorganic framework conjugates

S. Bera, D. K. Avasthi, A. Gupta, S. Rattan, O. P. Sinha
Sponsor: DST-ESRB
Funding: 58 lakhs
(Science and Engineering Research Board)
Tailoring of magnetic and other functional properties of thin film nanostructured design for photovoltaic solar cell device

Utkarsh Jain
Sponsor: BIRAC
Funding: 40 lakhs
(Biotechnology Industry Research Assistance Council)
Home-based portable device integrated with smartphone app for monitoring of Glucose, HbAIC Glycated Hemoglobin and GA Glycated Albumin

R. Nayak, S. Bose, S. Choudhury
Sponsor: ICMR
Funding: 30 lakhs
(Indian Council of Medical Research)
Multiple protein biomarker detection platform for breast cancer using quantum dots on a needle shaped nanostructured gold array

M. Joshi, S. Nigam
Sponsor: DST-WT
Funding: 23 lakhs
(Water Technology Initiative Program)
Reclamation of produced water generated from oil refineries using Nano composites

Richa Krishna
Sponsor: UGC-DAE
Funding: 8 lakhs
(University Grants Commission Department of Atomic Energy)
A study of AlZnO for transparent conducting oxide applications

ABVK Kumar, T. Basu
Sponsor: UGC-DAE
Funding: 8 lakhs
(University Grants Commission Department of Atomic Energy)
Development of suitable transducer for sensing applications on reduced graphene oxides

S Chakrabarti
Sponsor: UGC-DAE
Funding: 8 lakhs
(University Grants Commission Department of Atomic Energy)
Hetero-Structured nanocomposite Photo Catalyst with enhanced capability for selective conversion of CO2 to Methanol under Visible Light
RESEARCH ADVANCES MADE BY AINT

TOP 5 IMPACT FACTOR

**Electrocatalytic biofuel cell based on highly efficient metal-polymer nano-architectured bioelectrodes**


Journal: NANO ENERGY 39, 601, 2017
Impact Factor: 12.3

**High Yield Synthesis and Chemical Exfoliation of Two-Dimensional Layered Hafnium Disulphide**


Journal: NANO RESEARCH, 10.1, 2017
Impact Factor: 8.9

**An electrochemical sensor for detection of neurotransmitter acetylcholine using metal nanoparticles, 2D material and conducting polymer modified electrode**

N. Chauhan, S. Chawla, C. S. Pundir, U. Jain

Journal: BIOSENSORS AND BIOELECTRONICS 89, 377, 2017
Impact Factor: 7.5

**Point of care with micro fluidic paper based device integrated with nano zeolite-graphene oxide nanoflakes for electrochemical sensing of ketamine**


Journal: BIOSENSORS AND BIOELECTRONICS 88, 249, 2017
Impact Factor: 7.5

**Glycated hemoglobin detection with electrochemical sensing amplified by gold nanoparticles embedded N-doped graphene nanosheet**

Utkarsh Jain and Nidhi Chauhan

Journal: BIOSENSORS AND BIOELECTRONICS 89, 578, 2017
Impact Factor: 7.5

Books/Chapters

J Tyagi, E Sultan, A Mishra, M Kumari, R N Pudake (2017)
**The impact of AMF symbiosis in alleviating drought tolerance in field crops**


K Dalei, B B Sahu, M Kumari, R M Tripathi, R N Pudake (2017)
**Advances in genetic transformation of litchi**


R N Pudake, M Kumari, B B Sahu, E Sultan (2017)
**Targeted gene disruption tools for fungal genomics**


J Tyagi and R N Pudake (2017)
**Spectrophotometric assays to evaluate the microbes assisted drought tolerance in plants**


PATENTS FILED

TiNOX based passive heating water tank
Application Number - 201711032733
Inventors - Dr. Basant Sikarwar and Dr. D. K. Avasthi

Cost-effective smart sponges for efficient removal of oil, organic pollutant and pathogens from industrial wastewater.
Application Number - 201711016712 (May 2017)
Inventors - R. Nayak, K. Pandey, S. Jain and J. Mittal

A simple cost-effective transfer process of highly Uniform Thin Nanoporous Alumina Membrane onto rough and flat substrates
Application Number - 201711016285 (May 2017)
Inventors - R. Nayak and H S Bindra

A method of controlling root knot nematodes (Meloidogyne javanica) with silica nanoparticles
Application Number - 20171103055 (Jan 2017)
Inventors - A Bhattacharya

Silica nanoparticle as growth promoter of bioagents under in vitro studies
Application Number - 20171108220 (Mar 2017)
Inventors - A Bhattacharya

Synthesis of linoleic acid from microalgae using magnetic core-shell nanoparticle
Application Number - 201711011619 (Mar 2017)
Inventors - A Bhattacharya

A Method for Biosynthesis of Stannic Oxide Microbals
Application Number - 201711034682 (2017)
Inventors - Dr. R. Tripathi
ALUMNI INSIGHTS

As budding scientists in a field as novel as nanotechnology, there are plenty of opportunities, but not much guidance. To innovate we mustn’t try to reinvent the wheel however, and remember the benefits of standing on the shoulders of giants that precede us. Here we present to you insights from successful alumni who once sat in the same classes you are in right now.

DR. TUSHAR KUMERIA
DEVELOPMENT FELLOW, UNIVERSITY OF QUEENSLAND

Currently a part-time lecturer & researcher at University of Queensland Australia, he also received a fellowship from the same. Recently, he was awarded another fellowship from NHMRC for his research on photonic and optical material & drug delivery.

During his time at AINT, the guidance of Dr. Basu & Dr. Sinha proved crucial to his earning his scholarships. A dual degree graduate, his dissertation & PhD were both in the field of drug delivery. Since, industrial research report writing & interviewing are essential for the industry.

Dr. Kumeria suggests that these topics be made a part of the curriculum. Moreover, his thoughts on how Nanotechnology would evolve in the future are described best as with a bell shaped curve.

“Everything in life goes in a bell shaped curve - Nanotechnology will grow but at some point it will saturate.” He advises current AINT students to keep looking for opportunities & stay in touch with their seniors.

NAUSHAD ALI
APPLICATION SCIENTIST

Time at AINT changed Ali’s life. He joined AINT in 2006 for his Masters where he was introduced to carbon nanotubes. This was valuable information for him as he, later on, worked with companies that manufactured carbon nanomaterials and its derivatives. These products were further sold to companies across 6 continents.

The goal was the commercialization of nanomaterials. Keeping this in mind, along with the potential that Nanotechnology has, Ali decided to build a startup for bulk manufacturing of these products. In the process, they have overcome issues involved with bulk manufacturing by creating methodologies for the production of graphene from natural resources. Their recent innovation involved coming up with commodity-based products, like the bio-composite based laminate, for the real estate industry. This laminate would then be combined with graphene instead of the traditional laminate to enhance its strength.

His plans for the future are simple - graphene everywhere. Ali dreams of integration of a world with graphene integrated with all the products available. His only advice to current AINT students would be to “be ready for the industry. There is a huge demand for an experienced nanotechnologist.”

VIJIT MATHUR
DIRECTOR & CEO, TECH-LIFE BIOFUELS

A 2012 dual degree graduate. Vijit Mathur is making AINT proud with his company, Tech-Life Biofuels Pvt. Ltd that manufactures white coal from mustard husk. White coal is renewable, cheap and the perfect alternative to black coal. His main clients include Shahi Export and Modi Tyres. His venture was incepted by Mathur after his return from Europe after a year as a marketing managers for BSF Pvt. Ltd.

AINT made Mathur the person that he is today. It nurtured his growth and prepared himself for the worst case scenarios out in the industry. Along with a Masters in Nanotechnology, Mathur also holds a diploma in International Marketing from Frankfurt.

The use of nanotechnology to cure cancer is one area of research that intrigues him. Along with recycling and renewable technology. His only concern is the cost factor. He hopes that renewable tech will one day be cheap and easily available to the general public.

As a businessman, he is constantly looking for ways to integrate nanotechnology with his business. His advice to current AINT students would be to focus on research that is sure to translate to technology in the future, and try to make things resourceful, innovative and renewable.
Tissue Nanotransfection
Researchers at Ohio State University have developed a small device that sits on top of the skin and introduces new genes into skin cells.

Using the technique, new arteries and blood vessel networks were generated in mice which previously had restricted blood flow to limbs. In another instance, mice which had suffered a stroke were helped to recover by injecting neurons created using this technique into their brains.

Formation of intermediate induced pluripotent stem cells (iPS) is skipped, turning the skin cells directly into other functional cell types. Cells are reprogrammed without use of any virus vector. The method is non-invasive and completely excludes the possibility of tissue rejection.

Human clinical trials are planned to ensue next year.

Ceramide Nanoliposomes in Cancer Treatment
James Adair, a researcher at Penn State University, had been working on this project even before he and his wife were diagnosed with cancer a decade ago. They have both beaten it.

The method utilizes Ceramide Nanoliposomes 80 nanometers in size which easily travel through the body and enter tumors. They target and kill malignant cells while leaving healthy ones intact. As a result usual side effects of cancer treatment like hair and weight loss are not experienced.

Phase 1 human clinical trials are being carried out in 3 US research institutions.

Seawater filtration with Solar powered Membrane Distillation
20% of diseases caused in India are due to lack of drinking water. With an estimated 2 billion people living in regions of absolute water scarcity by 2025, development of low cost processes for producing fresh water is critically needed.

Researchers at NEWT, Rice University, Texas have applied light-harvesting Nanophotonics to Membrane Distillation in order to produce fresh drinking water without any external energy source. Low-cost carbon NPs combined with a porous polymer membrane generates up to 17.5 kW per sq. meter of membrane using 25x concentrated sunlight. This energy output yields 6 liters of fresh drinking water per hour per sq. meter.

PPuF: Graphene cigarette filter
A Bangalore based startup, Log9, has created a cigarette filter that halves the toxic content in cigarette smoke. That would potentially save the lives of 10,000 people worldwide that will die of smoking today alone.

The product, available in Delhi NCR, has already sold more than 10,000 pieces. Each filter costs the economical price of 20 rupees and filters 5 full cigarettes.

Log9, incubated at IIT Roorkee with a seed funding of ₹15 lakhs, aims to tackle the low availability of high purity graphene in India, and has 2 patents in graphene synthesis to that end.

MORE UPDATES
- Nano-capsules in clothing treat eczema, regulate body temperature
- Hybrid material harnesses solar energy to generate hydrogen from seawater
- Super capacitors made of ionic Liquid Nanodroplets and Graphene Oxide could amplify cell phone charging speeds
- Smart windows turn instantly into mirrors, could protect astronauts from radiation
- Accelerating Nerve Regeneration via nanoparticle mediated delivery of Fidgetin siRNA inducing greater microtubule proliferation
- Nanotechnology could soon produce direct digital interfaces with the brain
- “Living computers” made out of ribosomes capable of multi-input, complex logic operations
- Scientists successfully cryo-preserve and defrost embryos of zebrafish, with widespread implications for environmental preservation and food production
- Nanex coatings on leather and textiles repel dirt and water making clothing self-cleaning and durable, reducing energy and water consumption
SPECIAL COVERAGE
NASYA PERFORMS AT AMITY FOR SANKALP SE SIDDHI

A Delhi based fusion band that breathes, breeds & bleeds music. As a part of PM Modi’s national campaign, Sankalp Se Siddhi, they performed at Amity University, Noida where we got in touch with the lead singer and founder, Kunal Wason. Read on to know his views on the life of a fusion band in the country, his T-Series debut and the very distinctive dreadlocks.

The crowd was pumped. Nobody expected the saintly looking bearded fellow who walked on to stage on the premise of performing fusion music to tantalize them like he did.

Surjeet brewed magic on the flute. Drummer Pawan Mundephi stole the hearts of many a lady in the audience with his boyish good looks. Rohan Arora on the guitar was exceptional, whether he was going mellow or hard, and Pankaj Beniwal packed with him tons of groovy Indian rhythm with an array of percussions. But what really got the crowd going was frontman Kunal Wason’s smooth vocals and light-hearted humor.

A Delhi School of Economics graduate, his passion for music showed when his soul stirring voice left the hall filled with nothing but good vibes. Everyone felt the energy that was dissipating from him. And he got the crowd where he wanted to take it, on their feet for an encore of A.R. Rahman’s Maa Tujhe Salaam.

Despite their soulful renditions of Bollywood classics, Kunal’s disappointment with the Indian music scene was evident when we asked him if as a fusion artist, experimenting with music worked well with gathering the much needed paychecks. To which he responded, “…it is really difficult to maintain a balance. Yes, the paychecks are necessary, but if we only concentrate on that, it makes me feel like a sellout.” He continued, “I am a musician and for me, music comes first. There are so many bands who have either given up or gone mainstream. That is something I do not wish to do.”

The other thing that instantly stands out about Kunal is his very unique hair. His 40 thick dreadlocks are very low fuss according to him, but “take up to 10 hours to maintain” once every month.

Nasya was chosen as the official band for Sankalp Se Siddhi - Naya Bharat, a government initiative to create a ‘New India’ by 2022 when we'll be celebrating 75 years of Independence. And it sure made Wason proud. “I definitely see a better version of India [in 2022]. A couple of years down the line, India would be much better than what it is right now.”

The ‘New India’ is new in various ways. From a nayi soch towards what we can do for our nation, to open ears to new music that does not include just Bollywood. We see a bright future ahead for Nasya and Wason as a solo artist too, which includes his solo album deal with T-Series. We wish them all the luck! You can follow their tours and find out where you can catch them performing live here.
CREDITS

IMAGE CREDITS

COVER IMAGE
Sustainable growth and lipid production from Chlorella pyrenoidosa using N-doped carbon nanosheets: Unravelling the role of Graphitic Nitrogen.

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‡ These authors contributed equally to this work.

FEATURED IMAGES
TNT Mouse Leg (Page 10) via THE OHIO STATE UNIVERSITY
PPuF Graphene Filter (Page 10) via LOG 9 MATERIALS PVT. LTD.
Ceramide Nanoliposome (Page 10) via KEYSTONE NANO, Pennsylvania
Membrane Nanophotonics Solar Distillation (Page 10) via RICE UNIVERSITY, Texas, USA

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CHRISTIAN ALBERT UNIVERSITY, Kiel, Germany
INDIAN INSTITUTE OF TECHNOLOGY, New Delhi, India
UNIVERSITY OF DELHI, New Delhi, India
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THE INSTITUTION OF ENGINEERING AND TECHNOLOGY

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