

NIRMA UNIVERSITY

Nirma University was established by the initiative of the NIRMA EDUCATION AND RESEARCH FOUNDATION (NERF). The University was established in the year 2003 as a statutory university under a special act passed by the Gujarat State Legislative Assembly. It is recognized by the University Grants Commission (UGC) under Section 2(f) of the UGC Act. The University is duly accredited by National Assessment and Accreditation Council (NAAC) with "A" Grade. The University is a member of Association of Indian Universities (AIU) and the Association of Commonwealth Universities (ACU).

Functioning under the aegis of NERF, the University consists of Faculty of Technology and Engineering, Faculty of Management, Faculty of Pharmacy, Faculty of Law, Faculty of Science, Faculty of Architecture, Faculty of Commerce and Faculty of Doctoral Studies and Research.

The University is identified with cutting edge research, robust academic programmes, quality teaching learning process and over-all personality development interventions of its students. The 110 acres sprawling state of art campus provides refreshing environment and stimulates intellectual growth and creativity.

ABOUT INSTITUTE OF TECHNOLOGY

Institute of Technology is a leading institute offering multidisciplinary undergraduate, postgraduate, MCA and Ph.D. programmes in engineering. Institute is located in peaceful and sylvan surroundings, about 15 km from Ahmedabad Railway Station on Sarkhej Gandhinagar highway. The academic ambience provides full scope for development. The presence of the institute can also be felt by its alumni spread in national and multinational organizations as well as leading universities throughout the world. The institute provides an inspiring environment to all students to expand their intellectual dimension and recognize their hidden talents, not only in the technical field, but also in life skills.



National Conference on Recent Advances and Future Trends in Chemical Technology-2017

September 16, 2017



Conducted By
Chemical Engineering Department,
Institute of Technology,
Nirma University

Address for Correspondence:

A Block, A-110, Nirma University,
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SPECIAL ACHIEVEMENTS

- National Award for Engineering College having Best Overall Performance for the year 2002 by Indian Society for Technical Education (ISTE).
- National Awards for the Best Teacher in Gujarat state, Best Chapter Award, Best Student Chapter Award several times by ISTE.
- Students won national ROBOCON competition in 2002, 2003, 2006, 2008, 2011, 2014, 2015 and represented India in International meets.
- Institute has been ranked in first 20 top Engineering Colleges across the country as per the survey published by various leading magazines.

OBJECTIVE OF THE PROGRAM

Experts will give insight to the recent trends in the chemical technology and paper and poster presentation will provide an excellent platform for researchers to share findings and display their research work. It will also identify projects where a new product or technology is created with high societal impact and convey research objectives, methods, findings, and implications effectively to varied professional audiences.

OUTLINE OF CONTENTS

This national conference will be started with an astounding sessions of experienced and eminent speakers followed by paper and poster presentation competition. Abstract will be published in the form of proceedings. Paper selected for oral presentation will be considered for publication in **UGC approved International Journal of Research** with ISSN 2348-6848.

THRUST AREA (NOT LIMITED TO):

Nanotechnology, Clean, Green & Sustainable Technology, Novel Materials, Chemical & Biosensors, Reaction Engineering, Energy & Environmental Engineering, Polymer Science & Engineering, Catalysis, Biofuels, Modelling & Simulation, Green Buildings, Composite materials, Petrochemicals, Material Science, Drug Delivery, Organic Synthesis

AWARDS

Best Paper and Best Poster will be awarded in UG and PG category.

IMPORTANT DATES

Last date for Abstract Submission: **18/08/17**
Notification for abstract acceptance: **21/08/17**
Early Bird Registration by: **30/08/17**

FOR WHOM

Young researchers (UG, PG and Ph.D Scholars), Scholars and Academicians.

HOW TO APPLY

The applicants are required to send completely filled in application form (photocopy may also be used) along with the registration fees so as to reach the coordinator on or before 13/09/2017

REGISTRATION FEES

On or before	30th Aug
Students (UG)	Rs.500/-
Students (PG)	Rs.1000/-
Research Scholar, PhD, Faculty	Rs.1500/-
Registration after 30th Aug	
Students(UG & PG):	Rs.750/- and Rs.1500/- respectively
Others:	Rs.2000/-

ABSTRACT FORMAT

Single page abstracts with maximum of 300 words (TNR font), title in 14pt bold, upper lower case letter and centered, followed by authors name and affiliation (12pt bold, centered), and the abstract text aligned justified should be sent in MS word format.

Visit Website:

<https://sites.google.com/a/nirmauni.ac.in/national-conference-september2017/home>

Refreshments, conference kit with proceedings will be provided to all of the participants. All other expenses are to be borne by the participants. Registration charges are non refundable. Participants are required to make their own arrangements for lodging, boarding and travelling. However, on request, the arrangement for accommodation can be made on chargeable basis.

Fees can be paid by Cash/Demand Draft/Local Cheque. Demand Draft/Cheque should be drawn in favor of “**Institute of Technology, Nirma University**” payable at Ahmedabad

Corresponding Address:

PROGRAM CONVENORS

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PROGRAM ORGANIZING SECRETARY

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Institute of Technology Chemical Engineering Department, REGISTRATION FORM

National Conference on Recent Advances and Future Trends in Chemical Technology, 16 September 2017

1. Name: Mr./Ms
2. Edu. Qualification (Highest).....
3. Affiliation
4. Internal/External Student.....
5. If Internal Student Specify Roll No
6. Poster/Paper Title:.....
.....
.....
7. Address
- Phone..... Fax.....
Email.....
8. Demand Draft/Cheque No..... Dated.....
Bank with Branch:

Date:

Signature:

Place:

Sponsored by



Department of Science & Technology
Government of Gujarat



Nirma University
Institute of Technology
Chemical Engineering Department

National Conference on “Recent Advances and Future Trends in Chemical
Technology (RAFTCT)-2017”

Report

Recent Advances and Future Trends in Chemical Technology (RAFTCT)-2017 is the National Conference organised by the Chemical Engineering Department, on 16th September 2017, sponsored by GUJCOST and co-sponsored by Piyush Chemicals, included a wide range of themes of research.

A key feature of the RAFTCT is dedicated conference for young researcher working in the recent research areas of chemical technology. The wide area covered in the symposia includes Nano Technology, Clean, Green and Sustainable Technology, Novel Materials, Chemical and Biosensors, Reaction Engineering and Catalysis, Energy and Environmental Engineering, Polymer Science and Technology, Modelling and simulations, Smart Materials, Water Treatments, Chemical Process, Design, Drugs and its delivery, Applications of dyes, Catalysis, Biofuels, Organic Synthesis, Petrochemicals, and Material Science.

The conference started with the inauguration function just after the completion of registration and breakfast at 9:45 a.m. Honourable **Dr. Narottam Sahoo** (Advisor and Member Secretary, DST, GoG) was the Chief Guest of the function and Dr. P.N. Tekwani (i/c Director, IT, NU) was the President of the function. The dais was shared by Dr. J.P. Ruparelia (Head of Chemical Engg. Dept., IT, NU), Prof. Neha Patni (Convener of the Conference), Dr. Ankur Dwivedi (Organising Secretary of the conference). The abstracts of all posters and papers presented in the Conference are published in Abstract cum Souvenir booklet and in the form of e- proceedings, released by Dr. Narottam Sahoo and Dr. P.N. Tekwani respectively.

The keynote speech by **Dr. Ramesh L. Gardas** (Associate Professor, Department of Chemistry, IIT Madras) started at 10:45 a.m. He discussed about the Recent Advances and Future Trends in Ionic Liquids as Green Solvents for the extraction, absorption and dissolution processes.

It was followed by the expert talk on Polymorphism, Particle Formation Pathways and Long Term Colloidal Stability of Curcumin Particles Precipitated by Liquid Antisolvent Technique by **Dr. Sameer V. Dalvi** (Associate Professor, Chemical Engineering, IIT Gandhinagar) at 11:45 a.m.

Two Experts from IIT, gave insight to the recent trends in the chemical technology and the sessions were highly appreciated by the delegates.




Director
Institute of Technology
Nirma University



Paper presentation was divided in two tracks running parallel from 12:45 p.m. The session chair for one track was **Dr. Milind Joshipura** (Professor, Chemical Engg. Dept., IT, NU) and **Dr. Ramesh L. Gardas** from IIT Madras. Similarly session chair for another track was **Dr. R.K.Mewada** (Professor, Chemical Engg. Dept., IT, NU) and **Dr. Sameer Dalvi** from IIT Gandhinagar.

Poster presentation started after the lunch break at 2:00 p.m. The judge for the different categories were **Dr. Manish Patel** (Department of Chemistry, Nutan Science and Commerce College, Visnagar, Sankal Chand Patel University), **Dr. Pranav Trivedi** (Department of Chemistry, St. Xaviers College, Ahmedabad), **Dr. Kuldeep Joshi** (Indus University, Ahmedabad), **Dr. Bhoomika Mistry** (Department of Chemistry, K K Shah Jarodwala Maninagar Science College, Ahmedabad) accompanied by one internal judge from IT, NU like **Dr. Parin Shah, Dr. Nimish Shah, Dr. Femina Patel, Prof. Nikita Chokshi, Prof. N.Reddy**.

The paper and poster presentation provided an excellent platform for researchers to share findings and display their research work. It also identified projects where a new product or technology is created with high societal impact and convey research objectives effectively to varied professional audiences. Two Best papers and two Best posters (each in UG and PG category) was awarded with a certificate and memento at the Valedictory function at 4:30 p.m.

It is heartening to note that there was an overwhelming response of participants from institutes of repute like IITs, NITs etc, who came down here with high hopes of learning and understanding the depth of their relevant areas. With close to 60 posters and 35 papers presented, we hope that the rich technical content of the RAFTCT had a great benefit to the participants.

We have successfully managed the whole conference with a comprehensive on line process for abstract and paper submission, conference registration etc. The organizing committee appreciates all the sponsors whose contribution greatly helped in the organization of the National Conference-2017.

All presented papers will be published in International Journal of Research after peer review. The visitors interacted with a large number of delegates who are involved in the different field of research and all the delegates and participants had a technically rich experience at the RAFTCT and had a comfortable stay at Nirma University.



Prof. Neha Patni Dr. Shibu G. Pillai

Prof. Amita Chaudhary Dr. Ankur H. Dwivedi

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