

# **National Conference on New Frontiers of Research and Education in Chemical Sciences and National Convention of Chemistry Teachers (NCCT-2018): A Brief Report**

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The history and development of knowledge of Chemistry is very ancient and even the periods of human evolution have been classified on its basis such as; the Stone Age and the Iron Age. Almost all aspects of human life are directly or indirectly affected by the Chemistry. With the advent of modern tools and techniques of chemical analysis and characterization of new products, there has been a tremendous progress in the field of researches and application aspects of Chemistry. The Association of Chemistry Teachers (ACT) c/o Homi Bhabha Center for Science Education, (TIFR) Mumbai, since its inception in 2000, is organizing, facilitating and supporting a host of activities for qualitative development in the field of Chemistry. The sustained efforts are being taken by ACT which include Chemistry popularization workshops, seminars, conferences and teacher training programmes. Like previous years the present conference has been planned by ACT to organize along with National Convention of the Chemistry Teachers (NCCT-2018) - Annual event. The main objectives of the conference and the convention are:

- To provide a platform to the Chemistry Researchers, Scientists, Teachers and organizations to present their noteworthy research work in the field of Chemistry.
- To forge a synergic relationship between academia, industry and research centers for mutual benefit.
- To make recommendations for future course of action for promoting the quality of chemistry research and education.

Research papers under the following themes were invited:

- History of Chemistry including Ancient Indian Knowledge of Chemistry
- Environmental Chemistry
- Chemistry of Natural Products
- Green Chemistry
- Nano-Chemistry

- Computational Chemistry
- Medicinal Chemistry
- Food Chemistry
- Ayurvedic Chemistry
- Industrial Chemistry
- Space Chemistry
- Nuclear Chemistry
- Bio-Inorganic Chemistry
- Analytical Chemistry
- Chemistry for Sustainable Development
- Chemistry Education
- Innovations in Pedagogy of Chemistry

National Conference on New Frontiers of Research and Education in Chemical Sciences and National Convention of Chemistry Teachers organized by The Association of Chemistry Teachers (ACT) C/o Homi Bhabha Center for Science Education, (TIFR), Mumbai was hosted by Regional Institute of Education, Ajmer from Oct 25-27, 2018 in which a total of forty-eight papers were presented during the three-day conference in Eight technical sessions. Three Parallel sessions were organized simultaneously at the Assembly hall, e-learning center and Conference Room. In addition to these presentations, 2 Award lectures and 6 keynote lectures were also delivered by the invited speakers of the repute. Following main recommendations emerged out of the deliberations of the conference:

- For the betterment of Chemistry teaching learning in School, innovative practical skills should be promoted among students.
- Research done in area of Nano science can be proven significant in various fields such as medical, food industry etc.
- Rather than conventional chemistry, use of Green Chemistry should be promoted as it minimizes the use and generation of hazardous substances.
- Research done in area of medicinal chemistry can be useful to the society as it can help in treating various challenging diseases.
- Hands on activities that involve low cost or no cost are highly recommended as they can be proven effective in order to improve understanding among students and is an innovation in pedagogy of Chemistry.