About University College & Department

Andhra University is one of the premiere institutes in the country. Established in 1926, it had the fortune of having great educationalists and visionaries as successive Vice-Chancellors under whose able leadership the University expanded its horizons in post graduate teaching and research in the traditional, contemporary, emerging and innovative areas. Andhra University is the first multi discipline university to be awarded ISO 9001:2008 certification and has been accredited at ‘A’ grade with 3.65 CGPA by National Assessment and Accreditation Council. Recently, Andhra University is adjudged as one of the two state universities with five star ranking.

College of Science & Technology (AUCST) consists of 21 departments offering several courses of which Analytical Chemistry, Nuclear Chemistry, Bio-Inorganic Chemistry, Nuclear Physics, Human Genetics, Atmospheric Science, Geophysics, Space Physics were offered for the first time in India well in advance before other Universities started thinking of these courses. Well reputed professors and alumni like T. R. Seshadri, Suri Bhagavantham, Hanumantha Rao, Mahadavan, B.R. Rao, L.R. Row and C.R. Rao brought laurels to this college. Half of the existing departments in AUCST are funded by UGC SAP or DST FIST programmes. The college has the unique distinction of producing four Bhatnagar awardees, three in Chemistry and one in Physics.

About the Department:

As per the UGC Committee recommendations, the erstwhile department of Chemistry was upgraded into School of Chemistry in 1985 comprising of the three departments namely.
1. Dept. of Inorganic & Analytical Chemistry. (DIAC)
2. Dept. of Organic and Food, Drugs & Water Analysis.
3. Dept. of Physical, Nuclear and Marine Chemistry

The faculty members of DIAC have been working in different areas of research viz. Inorganic, Analytical, Environmental, Bioinorganic and Materials Science. Two of the faculty members received A.P. State Best Teacher Award in 2010 and 2011.

About the Conference:

Materials Science is an interdisciplinary subject that encompasses many branches of modern science and Engineering. Discovery of BaTiO3 as a ferroelectric material laid foundations for multilayer ceramic capacitors. Discovery of YBa2Cu3O7 as a super conducting material transformed the whole superconductivity studies from liquid Helium to liquid nitrogen temperature. Development of new structural, magnetic electro and bio ceramics along with semiconductors, super conductors and super ionic conductors and nano composites added a new dimension to the realm of tailor making of materials. In modern technology, one cannot down play the need for materials with enhanced optical ferroelectric, piezoelectric, ferromagnetic and catalytic properties for developing new technologies.

In the last two to three decades development of materials with at least one dimension confined to nano region gave an unprecedented impetus for Materials Science. At present, there are several methods for the synthesis of nano materials either through bottom up or top down approaches.

Nano materials visa-vis nanotechnology forged a renaissance in several fields of physical, chemical, pharmaceutical, environmental sciences as well as chemical, electronic, mechanical and computer engineering. Development of molecular magnets, molecular level transistors, carbon nano tubes, super computers, high surface area catalysts for mitigation of air pollution, and abatement of water pollution, nano crystalline drugs and new sensors for possible detection of noxious gases are only a few examples of the knowledge explosion in this area. In view of the exponential growth of the field of nano materials, it is highly desirable to organize National / International seminars in this rapidly growing area for knowledge dissemination and exchange of ideas. Keeping this in mind the present National Seminar is planned on “Recent Trends and Future Perspectives in Materials Science”.

Theme: “Materials Science: Present and Future Perspectives”

Subthemes
- Nanomaterials
- Photo catalysis
- Materials Synthesis
- Alternative Energy Resources
- Electro Ceramics
- Magnetic Materials
- Materials for Pollution Abatement
- Sensors
- Controlled Targeted Drug Delivery and Nano drug materials.

SEMINAR VENUE

Andhra University (1921), a prominent seat of higher education in Andhra Pradesh is located in the city of Visakhapatnam which is a tranquil city and a major tourist attraction in Andhra Pradesh. It is situated on the East coast of India with an excellent stretch of beaches, lush green hills, pleasant coastal drive way, hilltop parks, multi cuisine restaurants on the beach front, Buddhist monuments on the coastal headlands and many more scenic locales. The weather in June is comfortable in the city with warm days (32°C) and pleasant nights (19°C). The city is well connected by air, road and rail to other parts of the country.

WHO CAN ATTEND

Academicians, Scientists, Research Scholars, and PG Students from university, Research Institutes, Colleges and related Industry can participate.

CALL FOR ABSTRACTS

Original contributions of on-going completed unpublished research works are invited. The abstract should not exceed 200 words with the name of the presenting author indicated by underlining the name and should be mailed. E-mailed abstracts in word format are acceptable. Selected abstracts will be considered for oral presentations. Further correspondence will be through e-mail only to matsciencechem2013@gmail.com

POSTERS

Posters for presentation should not exceed 1x1m in size. Best poster presented will be awarded with suitable Prize