AG&SG SIDDHARTHA DEGREE COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS),VUYYURU,KRISHNA(Dt),A.P,INDIA

(Accredited at 'A' by NAAC)

Department Of Chemistry

In Association With IQAC

One Day International Webinar

Renewable Feedstocks For Sustainable Chemicals

12th JANUARY,2021 (TUESDAY)

TIME: 10:00 A.M-1:00 P.M

About The Webinar:

At present, most of our energy and chemicals demand is met from fossil resources (coal, crude oil and natural gas). These resources are non-renewable, limited and expected to last only for a couple of more centuries. Furthermore, their consumption by the mankind is growing steeply due to increasing population and urbanization. To meet the demand versus supply gap, it is mandatory for us to look for renewable, alternative resources for making energy and chemicals. Use of renewable feedstock resources would lead to low carbon emissions and clean environment. Among several options, carbon dioxide (CO_2), water (H_2O) and biomass are ideal renewable feedstocks for making fuels and chemicals. India has a huge amount of non-edible biomass for value-addition. At the same time, it has committed in the "Paris Agreement" that it would reduce its CO_2 emissions significantly. About 85% of the fossil feedstock requirements are currently being imported. Replacing fossils with renewable feedstocks would reduce the oil import bill, make the nation self-reliant and lead to sustainable development - Atma Nirbhar Bharat. Over the years efficient chemical practices have been developed to convert hydrocarbon-based fossil resources into fuels and chemicals. Now, the challenge is to develop new chemistry for converting the highly functionalized renewable feedstock materials. Carbon dioxide is a thermodynamically stable and kinetically inert molecule. Its transformation requires high energy input and efficient catalytic methods. Similarly, biomass conversion to chemicals needs multi-functional catalysts for selective transformation.

Resource Persons:

Prof.Prasad S.Lakkaraju,
Georgian Court University,
New Jersey,USA

Prof.Srinivas Darbha,
CSIR-National Chemical Laboratory,
Pune,India

Chief Patron	Sri N.Venkateswarlu, President,SAGTE
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Webinar Adviser	Sri J.Nageswara Rao, Senior Lecturer In Chemistry
Convenor Webinar	Smt A.Indira, Head,Department of Chemistry, Ph.No:9550673348
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Registration: Free

Webinar Platform: Google Meet

E-Certificate will be issued to the successful participants.