

Press Release (26.9.2007)

Council of Scientific & Industrial Research

'Team CLRI' at Central Leather Research Institute, Chennai and 'Team IIP' at Indian Institute of Petroleum, Dehradun

Wins

CSIR Technology Awards- 2007 in the category of Physical Sciences including Engineering and Innovation respectively

Hon'ble Minister S & T and Earth Sciences, Shri Kapil Sibal gave away CSIR Technology Award 2007 for Physical Sciences including Engineering to 'Team CLRI' at Central Leather Research Institute, Chennai and CSIR Technology Award 2007 for Innovation to 'Team IIP' at Indian Institute of Petroleum, Dehradun.

'Team CLRI' has won the award for developing chemo autotrophic activated carbon oxidation (CAACO) technology for the treatment of waste water. The technology involves biological and catalytic oxidations coupled in a single reactor. Biological oxidation of constituents of wastewater is accomplished by the immobilized aerobic and anaerobic bacteria (chemo autotrophs) in the meso pores of activated carbon and catalytic oxidation is carried out at the active sites of activated carbon. CLRI has also developed a packed bed reactor (CAACO Reactor) for the treatment of waste water. The CAACO technology has been implemented in more than 50 installations to test its efficacy on the treatment of wastewater discharged from different industries, software parks, residential colonies etc of varying capacities. The award carries a cash prize of Rs. 2 lakh, a plaque and a citation.

'Team IIP' has won the award for developing new catalysts for sweetening of lighter and heavier petroleum fractions. IIP after consistent R & D efforts has developed novel sweetening catalysts namely cobalt phthalocyanine sulphonamide for extractive sweetening of LPG/ lighter petroleum fractions and cobalt phthalocyanines dichloride for fixed bed sweetening of heavier petroleum fractions. Successful trial run of cobalt phthalocyanines sulphonamide catalyst was undertaken in FCC LPG Merox unit of BPCL Mumbai & LPG Merox unit of RIL, Jamnagar and the performance was found comparatively better than the commercial catalyst. IIP has filed twenty one patents for this innovation. Currently IIP is in the process of transferring the know how for the commercial production of these catalysts. The catalysts, being techno-economically superior, have the potential of replacing the existing catalysts world over. The award carries a cash prize of Rs. 2 lakh, a plaque and a citation.

CSIR Technology Awards, given annually, were instituted in 1990 with a view to foster and encourage in-house multidisciplinary team efforts and external interaction for technology development, transfer, marketing and commercialization.