

FARADAYIC[®] ElectroConcentration, ElectroRupture and ElectroSeparation of Bioalgae for Biofuels



Need Robust, low cost process for the concentration and flotation of ع bioalgae for biofuel.

Application of FARADAYIC[®] Electro-Phoretic Processes (pulse/ pulse reverse) based on prior/current activities directed Ö towards thermal barrier coatings and CNT interconnects.



Faraday has developed its electrophoretic process, in partnership with the DOE and EMTEC, for the deposition of YSZ for use as thermal barrier coatings in gas turbine engines.

FARADAYIC[®] EPD film YSZ NiCoCrAlY bondeoat150

Benefit

The resulting innovation will enable an enhanced separation process by developing an improved pre-concentration step that will feed into the AlgaeVS HDD Harvester



Power Consumption: 0.8 Wh/L (not optimized) Economics: Processing will cost \$42/barrel (not optimized)

