



Centre for  
Research and  
Technology Hellas



U.S. Consulate General  
in Thessaloniki

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*Workshop on: “Algae the Energy Supplier of the Future”*

*19 October 2009*

*CERTH’s Conference Centre*

The main objective of the Workshop on “*Algae the Energy Supplier of the Future*” is to provide an up-to-date review of recent research and technological developments in the field of algae mass production systems, photobioreactor technologies and other important areas of algal biofuel and high-added value chemicals production.

Algae biomass, a third-generation biofeedstock, represents one of the most exciting future renewable sources for biofuel and chemicals production. Compared to other feedstocks, algae can provide a high-yield source for biodiesel, ethanol and aviation fuels production without compromising food supplies, rain forests or/and arable land. For biodiesel markets, algae strains with high oil productivity can help bring much-needed feedstock to biorefineries world-wide. The global market for algal biomass is poised for explosive growth in the next ten years. Algae are attracting increased investment and interest from biofuels, petroleum, pharmaceutical, food and agribusiness industries around the world.

The algae-based industry has the potential to create new business opportunities and to meet ambitious targets for next generation biofuels, high-added value biomass co-products for food and feed, pharmaceutical and nutraceutical products, green chemicals and polymers. An emerging trend in algae species selection and cultivation is the utilization of synthetic biology and genomics to enhance the productivity and increase the utility of algae to produce designer fuels, animal livestock and fish feed, “green” plastics and specialty chemicals.

The Workshop’s keynote speakers will address topics regarding the algae-value chain from a technical-economic point of view, algae application in carbon sequestration and water remediation, algae cultivation in open, closed and hybrid systems, best industry practices for improving algae productivity and photosynthetic efficiency, and more.