

## Lecture on 30<sup>th</sup> March, 2016

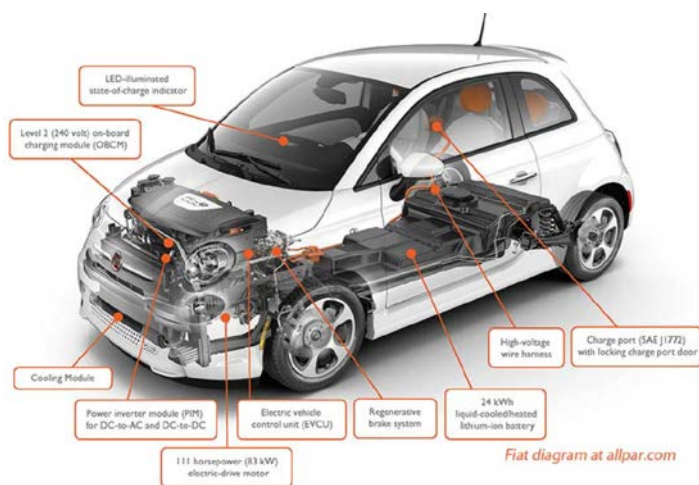
Aula Parravano, Chemistry Department, Sapienza University of Rome

# Will we have a market for Electro Cars and Energy Storage?

Batteries are mainly used in consumer applications (4C market: **C**omputers, **C**ordless phones, **C**ameras, **C**ordless tools), in cars (SLI battery – **S**tarting, **L**ighting, **I**gnition) and industrial applications (forklift, emergency lighting etc).

New applications are electromobility and battery energy storage systems (BESS). But the market introduction of these applications is slowly caused by high costs for both applications and limited range in case of electric vehicles (EV).

The lecture will show ways how to reduce the cost and to increase the EV range (specific energy of battery) mainly via the use of new and cheaper materials and continuous evolution of state-of-art systems.



Fiat 500e



BESS in Italy

**Speaker:** Prof. Dr. Juergen Garche

Senior Professor at Ulm University (Germany).  
Formerly Director of Center for Solar Energy  
and Hydrogen Research Ulm.

Currently Visiting Professor at Sapienza University of Rome,  
Department of Chemistry.

