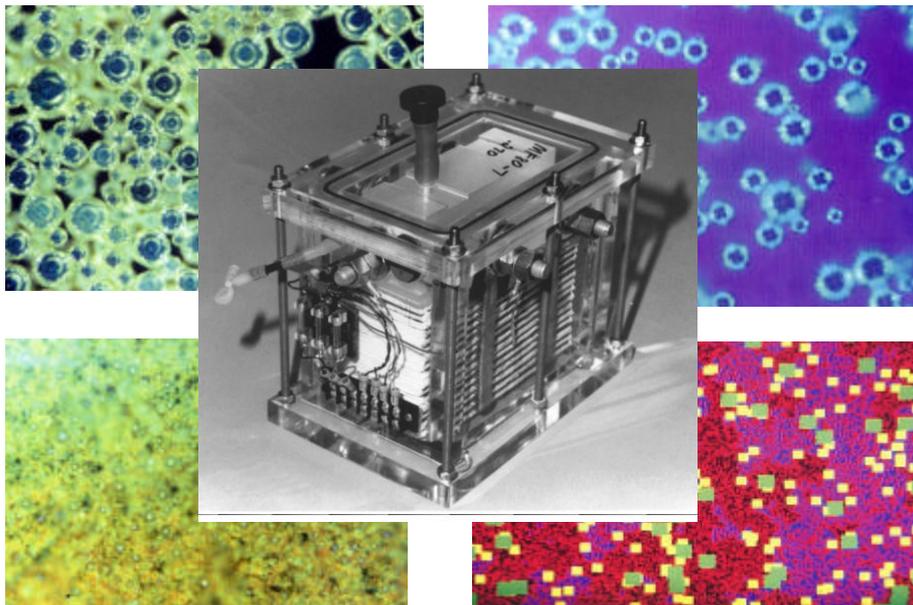




# ADVANCED LEAD ACID BATTERY FOR ELECTRIC/HYBRID VEHICLES



## Objective:

- Develop and demonstrate improved lead acid battery technology for electric/hybrid military vehicles

## Payoffs:

- Lead acid as a viable option for future electric/hybrid vehicles
- Cost effective energy/power improvement for new/existing lead acid systems
- U.S. manufacturing infrastructure avail.
- Rugged and long life power source

## Technical Approach:

- Model cells to evaluate advanced designs
- Improve energy and power with electrode additives (better active material utilization)
- Improve life by horizontal plate design (improves gas recombination and allows for electrode compression and high power)
- Testing at Navy labs, U Idaho, Concorde

- **Performers:** U. Idaho, AeroVironment, Concorde Battery Company, Advanced Lead Acid Battery Consortium, NSWCCD,

## Schedule:

Program Tasks	FY04	FY05	FY06
Batt Horiz Plate Dsg/Eval		▲	
Cell Investigation & Eval			▲
Module Fabrication & Test	▲		▲
EV/Hybrid Integration		▲	▲
EV/Hybrid Testing			▲
Transition			◆

**Transition:** MARCORSSYSCOM