

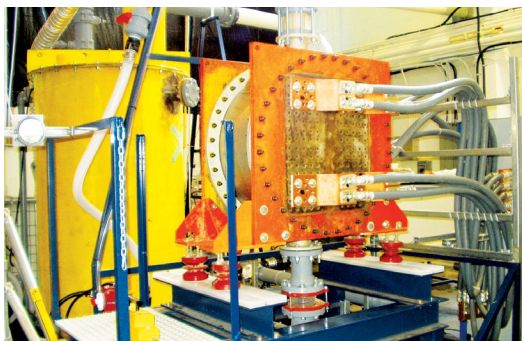
Chemical Process Services



- ◆ Electrochemical synthesis of compounds
- ◆ Environmental treatment solutions, including sewage & wastewater
- ◆ Electrode development & testing
- ◆ Material property & corrosion testing
- ◆ Electrochemical & ultrasonic cleaning systems
- ◆ Electrowinning technologies

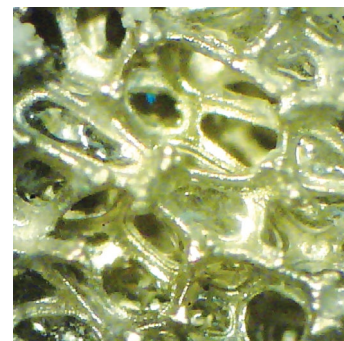


Bench-scale electrolytic chlorate production

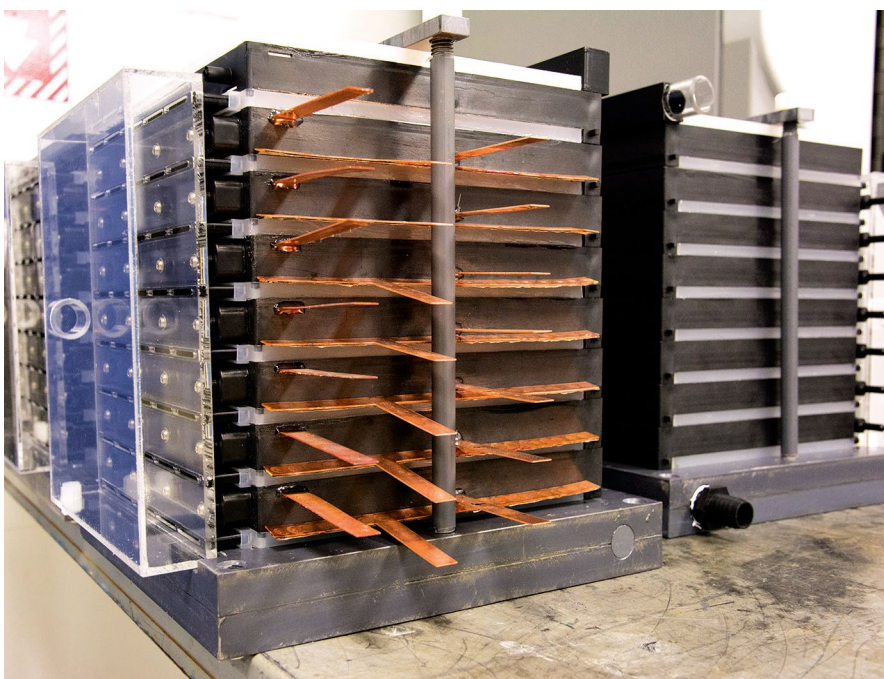


Pilot scale chlorate electrochemical cell

- ◆ Battery formulation & testing
- ◆ Recovery & reformulation of spent cathode materials
- ◆ Energy storage technologies
- ◆ Redox flow batteries
- ◆ Rechargeable Zn-air batteries
- ◆ Fuel cell development



Zinc anode



Fabricated stacks of zinc air flow cells prior to battery unit assembly

Customized Research & Development Programs:

- ◆ *Scoping studies*
- ◆ *Unit operation optimization*
- ◆ *Flowsheet development*
- ◆ *Locked cycle testing*
- ◆ *Pilot plant demonstration*
- ◆ *Generation of marketing samples*



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