

# HOUSTON ADVANCED RESEARCH CENTER

## Center for Fuel Cell Research and Applications

Houston Advanced Research Center (HARC) is an independent, non-profit organization based in The Woodlands, Texas. We work with industry and government to identify and advance promising environmental technologies into the marketplace.

The Center for Fuel Cell Research and Applications (CFCRA) supports commercialization of fuel cells and hydrogen technologies by providing technical information to early adopters, investors, system integrators, equipment users, and component suppliers. We help industry leaders make strategic decisions regarding technologies and systems of the emerging hydrogen economy.

In 2006, HARC is offering joint industry programs focused on fuel cell and hydrogen technology programs.

### CFCRA Core Program

The Core Program provides end-users with information and intelligence on fuel cell products, companies, and emerging technologies and trends.

#### What you Get:

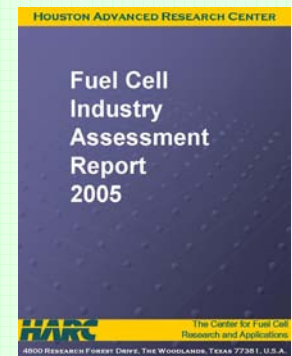
- ✓ **Monthly Newsletter** - contains noteworthy company news, product information, government activities, general industry trends, USFCC activities, and conference updates
- ✓ **Quick Briefs** – analytical reports on emerging technologies, developing markets, interesting applications, and new products related to fuel cells and to hydrogen production, storage, and distribution technologies
- ✓ **Technical Reports** – detailed reports highlighting commercial or scientific topics of interest providing sponsors detailed information and analysis for in-depth understanding
- ✓ **Fuel Cell Industry Assessment Report** – annual report listing major fuel cell technology developers and system manufacturers in helpful, easy-to-read summaries; also sold separately
- ✓ **Sponsors Meeting** – provides interaction with other sponsors and fuel cell manufacturers to discuss industry trends and potential project partnerships.
- ✓ **Supplemental Projects** – an opportunity to participate in additional projects to test and evaluate fuel cell and hydrogen products.

#### Who Should Sponsor?

Corporate R&D Groups  
Venture Capitalists  
Government Planners  
Technology Developers



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[www.harc.edu/fuelcell](http://www.harc.edu/fuelcell)

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### CFCRA Supplemental Projects

Sponsors of the Core Program have the opportunity to participate in voluntary Supplemental Projects. In 2006, the proposed Supplemental Projects include:

#### PEM Fuel Cell UPS Test and Evaluation

- ❖ Focus on commercial systems targeting telecom applications
- ❖ two systems proposed for testing in 2006
- ❖ Deliverables include snapshot evaluations and technical reports evaluating key performance attributes and issues

**APC InfraStruXure™ (10 kW)**

**IdaTech ElectraGen™ (5 kW)**

#### Portable Fuel Cell System Test and Evaluation

- ❖ Survey and comparison of competing technologies including SOFC, PEM, and DMFC
- ❖ Three systems proposed for testing in 2006
- ❖ Deliverables include snapshot evaluations and comparative reports evaluating key performance attributes and issues

**NanoDynamics Revolution™ 50**

**Voller Energy 100 v3**

**Smart Fuel Cell A50**

#### Distributed Hydrogen Production Equipment Test and Evaluation

- ❖ Survey and comparison of competing technologies including reverse PEM, conventional electrolyzer, and NG reformer
- ❖ Up to three systems proposed for testing in 2006
- ❖ Deliverables include snapshot evaluations and test reports describing performance attributes and issues

**Proton Energy Systems HOGEN**

**Teledyne Energy Systems  
TITAN HM**

**H2Gen HGM-2000**

#### Plug-In Hybrid Vehicle Technology Survey

- ❖ Work with project sponsors to craft a technology roadmap and other information supporting internal decision-making and program design
- ❖ Provide innovative ideas to create maximum program impact

**Technology Roadmap**

### Who Should Sponsor?

Potential end-users needing operating data to support urgent business decisions, including energy, facilities, safety, IT, telecom, power reliability, homeland security, battery manufacturers, venture capitalists, utilities, and related professionals. Plug-In Hybrid program is intended for companies wishing to get involved in advanced Plug-In Hybrid vehicles, including electric utilities, automotive fuel cell companies, battery suppliers, fleet operators, and similar organizations.



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