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亚洲电池/燃料电池市场国际研讨会

# Battery/Fuel Cell Asia Markets

29 - 30 May 2007

Swissôtel Merchant Court, Singapore

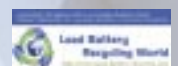
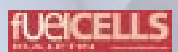
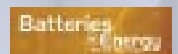


Battery recycling plant; Photo courtesy of Gravita Exim

## “Evolving into the Next Generation Power Sources”

- *Lenovo Corporate R&D*
- *Zinifex / Advanced Lead-Acid Battery Consortium (ALABC)*
- *Frost & Sullivan*
- *Chery Automobile*
- *Nissan Motor Co., Ltd.*
- *SFC Smart Fuel Cell AG*
- *BASF Fuel Cell*
- *Institut of Fuel Cell Technology Universiti Kebangsaan Malaysia*
- *Direct Methanol Fuel Cell Corp.*
- *ETI Tech*
- *Gashub Technology*
- *Antig Technology*
- *Gravita Exim Ltd*

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# Day 1

29 May - Tuesday

8:00	Registration and Coffee	12:40	Discussion followed by Lunch
9:00	Chairman's Welcome & Remarks	2:00	<b>BATTERY MARKETS DEVELOPMENT IN CHINA / INDIA</b> <ul style="list-style-type: none"><li>• Growth of Lithium-ion battery</li></ul>
9:10	<b>ASIA BATTERY MARKETS AND TRENDS</b> <ul style="list-style-type: none"><li>• Primary and secondary battery markets developments</li><li>• Analysis of growth applications areas</li><li>• Raw materials markets</li><li>• Battery innovations to meet challenges from alternative power source, eg fuel cell, ultracapacitors, etc.</li></ul>	2:30	<b>LEAD-ACID BATTERY RECYCLING OPPORTUNITIES AMIDST INCREASING ENVIRONMENTAL AWARENESS</b> Rajat Agarwal, Managing Director Navin Sharma, Vice President (Marketing) <b>Gravita Exim Ltd.</b>
9:45	<b>FUEL CELL MARKETS &amp; DEVELOPMENT TRENDS</b> <ul style="list-style-type: none"><li>• Implications for the energy industry including oil</li><li>• Commercialization of fuel cells for portable devices</li><li>• Role of Asia in the emerging fuel cell markets</li></ul> Ravi Krishnaswamy Director, Energy & Power Systems Group <b>Frost &amp; Sullivan</b>	3:00	<b>LATEST DEVELOPMENT OF THE LEAD-ACID BATTERY FOR HYBRID APPLICATIONS</b> <ul style="list-style-type: none"><li>• Lead market dynamics in Asia</li><li>• Growth of hybrid and impact on lead market</li><li>• Lead-acid battery systems - Creating a viable, cheaper alternative</li></ul> Mark Stevenson, Technical Manager <b>Zinifex Limited</b> Chairman, Marketing Committee <b>Advanced Lead-Acid Battery Consortium (ALABC)</b>
10:20	<b>SINGAPORE'S POTENTIAL AS A FUEL CELL HUB</b> <ul style="list-style-type: none"><li>• Research efforts &amp; projects</li><li>• Growth applications</li><li>• Future prospects</li></ul> Avier Lim, Managing Director <b>Gashub Technology</b>	3:30	Discussion followed by Tea
10:50	Discussion followed by Coffee	4:00	<b>HYBRID ELECTRIC VEHICLES (HEVS) DEVELOPMENTAL STRATEGY BY CHERY</b> Senior representative <b>Chery Automobile</b>
11:20	<b>ENABLING COMPETITIVE FUEL CELLS</b> Dr Horst-Tore Land, Managing Director & CEO <b>BASF Fuel Cell</b>	4:30	<b>DEVELOPMENT OF FUEL CELL VEHICLES – NISSAN'S EXPERIENCE</b> Senior Representative Fuel Cell Laboratory Nissan Research Center <b>Nissan Motor Co., Ltd.</b>
11:50	<b>ENERGY SYSTEM CONSIDERATIONS FOR NOTEBOOK/PC DESIGNS</b> <ul style="list-style-type: none"><li>• Power sources requirements</li><li>• Quality issues of battery packs &amp; ensuring product safety</li><li>• Potential of fuel cells?</li></ul> <b>Panelists:</b> Henry Chai Haixin Director, Strategic Technology Alliance <b>Lenovo Corporate R&amp;D</b> Dr Manfred Stefener Founder & Member of supervisory board <b>SFC Smart Fuel Cell AG</b> & inviting others	5:00	Discussion & Close of Day 1
12:10	<b>ADVANCEMENTS IN MICROBATTERY TECHNOLOGY</b>		

#### You Will Network With:

CEOs, MDs, Regional Directors, Commercial Directors, Business Development Directors/Managers, Marketing Managers, Technology Licensing Directors/Managers, Operations Managers, R&D Directors, OEM/ODM/ Applications Engineers, Corporate Planners from Battery/ Fuel Cell\* manufacturing & distributing companies, Electronics/Automotives manufacturers, Specialty Chemicals/Catalysts systems / Components suppliers and Gas (Hydrogen) companies

\* Lithium-ion (Li-ion), Nickel Metal Hydride (NiMH), Nickel Cadmium (NiCd), Lead-Acid, Phosphoric Acid (PAFC), Proton Exchange Membrane/Polymer Electrolyte (PEM), Direct Methanol (DMFC), Solid Oxide (SOFC), Molten Carbonate (MCFC), Alkaline (AFC), Electrochemistry, Sustainable Energy

## Day 2

30 May - Wednesday

- 9:00 Chairman's Remarks
- 9:10 **EMERGING REAL-WORLD APPLICATIONS (MILITARY/INDUSTRIAL/MOBILITY/CONSUMER) AND VOLUME MARKETS FOR DIRECT METHANOL FUEL CELLS (DMFCS)**  
Dr Manfred Stefener  
Founder & Member of supervisory board  
**SFC Smart Fuel Cell AG**
- 9:45 **FUEL CELL DISTRIBUTION STRATEGY FOR PORTABLE ELECTRONICS - CREATING A GLOBAL FUEL CATRIDGE MANUFACTURING & DISTRIBUTION INFRASTRUCTURE**  
Dr Carl Kukkonen, CEO  
**Direct Methanol Fuel Cell Corporation**
- 10:20 **FUEL CELL DEVELOPMENTS IN TAIWAN**  
Brent McKendry, VP, Business Development  
**Antig Technology**
- 10:50 Discussion followed by Coffee
- 11:20 **HYDROGEN MARKET – AVAILABILITY, STORAGE, INFRASTRUCTURE AND SAFETY ISSUES**
- 11:50 **NATIONAL HYDROGEN & FUEL CELL DEVELOPMENT IN MALAYSIA**
  - Government initiatives & milestones
  - Update of on-going projects
  - Future outlookProf. Ir. Dr. Wan Ramli Wan Daud  
Director  
**Institut of Fuel Cell Technology**  
Professor of Chemical Engineering  
Department of Chemical and Process Engineering Faculty of Engineering  
**Universiti Kebangsaan Malaysia**
- 12:20 **LATEST EMERGING APPLICATION OF FUEL CELL IN UPS**  
Chia Kah Teck, Senior operation executive  
**ETI Tech (M) Sdn Bhd**
- 12:50 Final Discussion followed by Closing Lunch
- 2:35 End of Conference

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*"There is a huge increase in demand from battery makers...the auto sector is probably the most interesting sector in terms of growth..."*

*Mar 27, 2007, Reuters*

While US remains the largest global battery market, the growth will be in Asia, with its competitive advantages in cheaper raw materials, huge manpower, and excellent infrastructure facilities. China, which already houses foreign majors including Johnson Control, Sanyo and Panasonic and many others, will be the propeller.

Innovations in **consumer/electronics devices, automobiles (especially Hybrid electric vehicles) and industrial sectors** have increased the impetus on battery manufacturers to constantly research or improve on alternative or existing battery chemistries and develop high-margin products. Which chemistries – **NiMH, NiCD, Li-ion and Lead-acid** – will emerge as the preferred choice? Manufacturers will have to balance the costs of technology and raw materials prices against performance and demand from the users. Battery recycling has generated even more interest amidst high raw material costs & environmental concern.

*"...demand for more power in portable devices continues to grow...fuel cells can provide more power..."*

*– Feb 12, 2007, CNET News.com*

*"Clean energy is the way ahead, and environmentally friendly fuel cells may eventually power mobile phones and their base stations..."*

*– Mar 27, 2007, The Straits Times*

On the other hand, fuel cell research has assumed greater importance lately. Are they the solution to power-hungry devices, stable systems and environmental concerns? CMT's conference will cover the development of fuel cells in various sectors – **Automotives, Industrial (UPS), Laptops/Notebooks & Military**. Japan aside, find out also how other nations, including **Singapore, Malaysia and Taiwan** are prepping up and embracing the **hydrogen economy**.

CMT's **Asia Battery/Fuel Cell Markets** conference aims to provide an update.

Highlights include:

- Asia Battery / Fuel Cell Markets & Trends
- Lead market dynamics in Asia
- Development of Lead-acid for Hybrid Electric Vehicles (HEVs)
- Battery Recycling markets and opportunities
- Advancement in Microbattery Technology
- Emerging real-world applications for military/ industrial/mobility/consumer sectors
- Hydrogen markets for Fuel Cells

Take this opportunity to establish new networks between the complementing power sectors. Register early and with your team to enjoy **special fees**. Go online to [www.cmtevents.com](http://www.cmtevents.com) or contact Ms. Sasha at [sasha@cmtp.com.sg](mailto:sasha@cmtp.com.sg) for registrations now!



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## REGISTRATION

Battery/Fuel Cell  
Asia Markets 2007

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Email	_____
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Update your details at  
[www.cmtevents.com](http://www.cmtevents.com)

**Fees:** The full Registration Fee includes cost of all sessions, luncheon, coffee/tea, cocktail & CD documentation.

	1 Person	3 or more (from the same company)*
<b>Early Bird Fee</b> <small>*Register &amp; Pay before 28 April 07</small>	<b>USD1,295</b> <b>(SAVE USD100)</b>	<b>USD1,095</b> <b>(MIN SAVINGS OF USD900)</b>
<b>Regular Fee</b>	<b>USD1,395</b>	<b>USD1,195</b> <b>(MIN SAVINGS OF USD600)</b>

*\*terms and conditions apply*

**Cancellations, Refunds & Transfers:** A full refund will be promptly made for all written cancellations 3 weeks before the meeting. Thereafter, cancellations are not refundable. A substitute may be made at any time.

Photocopy Registration Form to Preserve Brochure Copy. May, 2007

### TELEGRAPHIC TRANSFER

Account Name: **Centre for Management Technology**  
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Bank: HSBC Singapore  
Branch: Marine Parade, Singapore  
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### Customized Sponsorship Package Available

This event is an excellent platform to promote your organisation to influential players and investors in the industry. Sponsorship opportunities available include Corporate, Exclusive Luncheon, Cocktail & Documentation sponsor. Exhibition / catalogue display can be arranged upon request.  
Contact [cynthia@cmtevents.com.sg](mailto:cynthia@cmtevents.com.sg) or (65) 6346 9132.

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### TO REGISTER

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Post to: 80 Marine Parade Rd  
#13-02 Parkway Parade, Singapore 449269

### CONFERENCE VENUE

CMT has arranged special discounted room rate at S\$ 225.00 +++ (Single) / S\$ 245.00 +++ (Double) per room per night (subject to room & rate availability) for delegates at Swissôtel Merchant Court, Singapore. Daily Gourmet Buffet Breakfast at additional S\$25.00+++ per person.  
**Reservation Cut-off Date: 24 April 2007**

**Please reserve your room with the hotel directly, providing full credit card number and expiry date to:**

Ms. Vicky Yap, Assistant Reservation Manager  
Swissôtel Merchant Court, Singapore, 20 Merchant Road, Singapore 058281  
Phone: **65 6239 1774** Fax: **65 6336 9993**  
Email: [vicky.yap@swissotel.com](mailto:vicky.yap@swissotel.com)

### ~ CMT'S UPCOMING EVENTS ~

## 3rd ASIA Refining

17 - 18 September 2007 • Singapore

*"Refinery Reconfiguration for  
Margin Improvement"*

## 12th Natural Gas Asia Markets

14-15 May 2007 • Kuala Lumpur

*"How long will this tight supply situation &  
sellers' market last?"*  
*"Changing dynamics - new supply sources  
and contractual terms"*

2nd Annual

# BTLtec

## - Biomass-To-Liquids Technology

12-13 September 2007 • Vienna, Austria

- Challenges & Commercialisation Prospects
- Optimising allocation of biomass & gasification technologies
- Feestock issues & sustainability of supply