



**International Partnership  
for the Hydrogen Economy**

## **MEETING AGENDA**

4<sup>th</sup> Implementation–Liaison Committee Meeting

22-23 March 2005  
Rio de Janeiro, Brazil

**Sheraton Barra Hotel and Suites**  
Avenida Lucio Costa 3150, Barra da Tijuca, Rio de Janeiro, Brazil  
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**Final Draft**

## **International Partnership for the Hydrogen Economy**

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### **Draft Agenda**

The IPHE ILC meeting will be held in conjunction with the Brazilian Solid Oxide Fuel Cell Network Meeting and the Latin-American Forum on Hydrogen and Fuel Cells. Detailed agendas for the three meetings are listed below:

#### **Sunday, 20 March 2005**

##### **Brazilian SOFC Network – Rede PaCOS**

**Sheraton Barra Hotel & Suites - Rio de Janeiro**

|              |  |
|--------------|--|
| <b>8:30</b>  | Welcome  |
| <b>9:00</b>  | <b>Ministry of Science and Technology</b>  |
| <b>9:20</b>  | Brazilian SOFC Network – Rede PaCOS<br><b>Paulo Emílio Valadão de Miranda – Coordinator Rede PaCOS</b>   |
| <b>9:40</b>  | Conference: Current Status of SOFC Technology and the Related Materials / Electrochemical Issues<br><b>Junichiro Mizusaki - President of The SOFC Society of Japan</b> |
| <b>10:25</b> | Posters + Coffee Break   |
| <b>11:15</b> | Conference: Current Activities for the Development of Solid Oxide Fuel Cells in Europe<br><b>Paul Lucchese - SOFCNet</b>   |
| <b>11:45</b> | Conference: SOFC Development in the United States  |

|              |  |
|--------------|--|
|              | <b>Bernadette Geyer – US Fuel Cell Council</b>   |
| <b>12:15</b> | Conference: International Partnership for the Hydrogen Economy: Overview and Update<br><br><b>Michael Mills – Secretariat IPHE</b> |
| <b>12:45</b> | Lunch  |
| <b>14:30</b> | Round Table Brazilian SOFC Network   |
| <b>17:00</b> | Closing  |

## Monday, 21 March 2005

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|---|---|--|
| <b>Latin-American Forum on Hydrogen and Fuel Cells</b>  |   |  |
| 8.30  | Opening   |  |
|   |   |  |
| 8.45  | Introduction of the IPHE  |  |
| <i>The IPHE ILC Co-Chairs will provide an overview of the IPHE.</i>   |   |  |
| 9.15  | IPHE Member Presentations <ul style="list-style-type: none"> <li>➤ New Zealand</li> <li>➤ European Commission</li> <li>➤ United States</li> </ul> |  |
| <i>Representatives from the members of the IPHE will provided a brief overview of the hydrogen and fuel cell R,D,&amp;D activities in IPHE member states.</i> |   |  |
| 10.15   | Coffee Break  |  |
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| 10.30 | Latin-American Countries H2/FC Programs               |  |
|       |   |  |
| 12.00 | Lunch   |  |
|       |   |  |
| 13.00 | Latin-American Countries H2/FC Programs,<br>Continued |  |
|       |   |  |
| 14.30 | Technical Sessions                                    |  |
|       |   |  |
| 15.00 | Coffee Break  |  |
|       |   |  |
| 15.15 | Technical Sessions, Continued                         |  |
|       |   |  |
| 17.30 | Closing   |  |
|       |   |  |

## Tuesday, 22 March 2005

| <b>IPHE Implementation-Liaison Committee Meeting</b>   |   |  |
|--|---|--|
| <b>1. Formal Topics</b>  |   | <b>Document</b>                            |
| 08.30  | 1.1 Opening Address by Mrs. Dilma Vana Rousseff, Brazilian Minister of Mines and Energy<br>1.2 Welcome and Introductions; New Delegates and Observers<br>1.3 Adoption of the Agenda<br>1.4 Adoption of the Minutes from the Reykjavik ILC meeting in September 2004 |  |
| + <i>The ILC Co-Chairs will lead the members through the formal topics session.</i>  |   |  |
| 9.00   | 1.5 ILC Co-Chairs Update<br>1.5.1 ILC Workplan Update   | ILC-042-05, SC-013-05<br>ILC-029-04        |
| + <i>ILC Co-Chairs Hanns-Joachim Neef and Thorsteinn Sigfusson will offer an update to the participants on ILC activities, to include the activities of the six ILC task forces, provide an overview of the ILC action items, the ILC Workplan, and on the next steps for the ILC.</i> |   |  |
| 10.00  | Coffee Break  |  |
| 10.15  | 1.6 Secretariat<br>1.6.1 Activities Update Presentation<br>1.6.2 IPHE Awards Program  | Room Document<br>ILC-042-05 (Attachment 2) |
| + <i>Michael Mills, from the IPHE Executive Secretariat, will offer an update of Secretariat</i>   |   |  |

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| <p><i>activities and a report from the 3<sup>rd</sup> Steering Committee meeting held in Paris, France in January 2005.</i></p> <p>+ <i>The Secretariat will also present a concept paper on an IPHE awards program.</i></p>   |   |                          |
| 10.45  | 1.7 New Zealand Hydrogen and Fuel Cell Overview   | Room Document            |
| <p>+ <i>Anthony Clemens, New Zealand, will offer a 15 minute presentation on New Zealand's hydrogen and fuel cell activities.</i></p>  |   |                          |
| <b>2. IPHE Roadmaps and Strategies</b>   |   | <b>Document</b>          |
| 11.00  | 2.1 IPHE Roadmap  | ILC-043-05<br>ILC-047-05 |
| <p>+ <i>The Secretariat will lead a discussion on the development of an IPHE Roadmap. Please review the Scoping Paper: Toward the Development of an Integrated IPHE Roadmap for Hydrogen and Fuel Cells – ILC-043-05 – and the Draft Questionnaire – ILC-047-05.</i></p> |   |                          |
| 11.30  | 2.2 IPHE Member Hydrogen and Fuel Cell Strategies and Roadmaps<br>2.2.1 Brazil<br>2.2.2 Australia | Room Document            |
| <p>+ <i>IPHE members will offer a 15 minute report on their recent activities regarding hydrogen and fuel cell roadmap development. A presentation template has been provided as Attachment 1.</i></p>   |   |                          |
| 12.00 –<br>13.30   | Lunch   |                          |
| <p>+ <i>Lunch will be served in the Sheraton Barra Hotel.</i></p>  |   |                          |

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| 13.30  | <p>2.2 IPHE Member Hydrogen and Fuel Cell Strategies and Roadmaps, Continued</p> <p>2.2.3 Canada</p> <p>2.2.4 China</p> <p>2.2.5 European Commission</p> <p>2.2.6 Germany</p> <p>2.2.7 Italy</p> <p>2.2.8 Korea</p> <ul style="list-style-type: none"> <li>▪ <i>Mr. Jong-Yeon Yoon, MOCIE</i></li> </ul> <p>2.2.9 United Kingdom</p> <ul style="list-style-type: none"> <li>▪ <i>Mr. Ray Eaton, DTI</i></li> </ul> | Room Document          |
| <p>+ <i>IPHE members will offer a 15 minute report on their recent activities regarding hydrogen and fuel cell roadmap development. A presentation template has been provided as Attachment 1.</i></p> |  |                        |
| 15.15  | Coffee Break   |                        |
| <p><b>3. Hydrogen and Fuel Cell Stationary Applications</b></p>  |  | <p><b>Document</b></p> |
| 15.30  | <p>3.1 Brazil</p> <ul style="list-style-type: none"> <li>➤ Government Presentation</li> <li>➤ Stakeholder Presentations           <ul style="list-style-type: none"> <li>▪ Petrobras</li> <li>▪ Eletrobras</li> </ul> </li> </ul> <p>3.2 France</p> <p>3.3 Germany</p> <ul style="list-style-type: none"> <li>➤ Government Presentation</li> <li>➤ Stakeholder Presentation</li> </ul>                             |                        |

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|   | <ul style="list-style-type: none"> <li>▪ <i>Mr. Michael Bode</i>, President and CEO, MTU CFC Solutions GmbH</li> </ul> <p>3.4 Japan</p> <p>3.5 Korea</p> <ul style="list-style-type: none"> <li>➤ Government Presentation           <ul style="list-style-type: none"> <li>▪ <i>Dr. Chang-Soo Kim</i>, KIER</li> </ul> </li> </ul> <p>3.6 Norway</p> <ul style="list-style-type: none"> <li>➤ <i>Trygve Riis</i></li> </ul> <p>3.7 United States</p> <ul style="list-style-type: none"> <li>➤ Government Presentation           <ul style="list-style-type: none"> <li>▪ <i>Dr. Robert Wright</i>, DOE</li> <li>▪ <i>Mrs. Valri Lightner</i>, DOE</li> </ul> </li> </ul> |  |
| <p>+ <i>IPHE members and stakeholders will offer 15 minute presentations on their experiences with stationary applications for hydrogen and fuel cells.</i></p> |  |  |
| 18.00   | Adjourn  |  |

## Wednesday, 23 March 2005

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| <b>4. Stakeholder Involvement</b>  |  | <b>Document</b> |
| 8.30   | 4.1 Implementation of the Concept Paper on Stakeholder Involvement | SC-005-04       |
| <p>+ <i>The ILC Co-Chairs and Secretariat will discuss the process for implementing the four options approved in the Concept Paper on Stakeholder Involvement.</i></p> <p>+ <b>NOTE: This session will be open to IPHE members only.</b></p> |  |                 |
| <b>5. IPHE Projects and Events</b>   |  | <b>Document</b> |



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|---|--|------------------------------|
|   |  |                              |
| 9.00  | 5.1 IPHE Project and Events Development<br>5.1.1 Updated Calendar of Events Related to the Scoping Papers<br>5.1.2 IPHE Project and Event Proposals<br>5.1.3 IPHE Project Evaluation Teams | ILC-042-05<br><br>ILC-045-05 |
| <ul style="list-style-type: none"> <li>+ <i>The EC will offer brief updates on the status of the hydrogen production from renewable resources and the safety, codes and standards workshops.</i></li> <li>+ <i>Italy will offer a brief update on the status of the hydrogen storage workshop.</i></li> <li>+ <i>The U.S. will offer a brief update on the status of the fuel cell workshops.</i></li> <li>+ <i>The Secretariat will provide a brief overview of each project and event proposal submitted for consideration.</i></li> <li>+ <i>The participants will determine the process for the ILC to develop, approve, and implement IPHE projects and activities, and a pathway forward for developing a package of recommended projects for the next Steering Committee meeting in September 2005.</i></li> </ul> |  |                              |
| 10.30   | Coffee Break   |                              |
| <b>5. Stakeholder Involvement</b>   |  | <b>Document</b>              |
| 11.15   | 5.1 Implementation of the Concept Paper on Stakeholder Involvement   | SC-005-04<br>ILC-046-05      |
| <ul style="list-style-type: none"> <li>+ <i>The ILC Co-Chairs and Secretariat will discuss the process for implementing the four options approved in the Concept Paper on Stakeholder Involvement.</i></li> </ul>   |  |                              |
| <b>6. ILC Business Items</b>  |  | <b>Document</b>              |
| 11.15   | 6.1 Discussion: Election of ILC Co-Chairs  |                              |

|   |                                     |                 |
|---|-------------------------------------|-----------------|
| <p>+ <i>The ILC Co-Chairs two year term end in December 2005. The Secretariat will provide the ILC meeting participants with a procedure for determining the Co-Chairs for the next term, for the period of January 2006 – December 2007.</i></p>         |                                     |                 |
| <b>7. Host Country Presentations</b>  |                                     | <b>Document</b> |
| 11.30   | 7.1 Presentations to be determined. |                 |
| <p>+ <i>A representative from Brazil will moderate the host country presentation session.</i></p>   |                                     |                 |
| <b>8. Closing</b>   |                                     | <b>Document</b> |
| 12.15   | 8.1 Action Items                    |                 |
| <p>+ <i>The Secretariat will review the action items agreed upon by the ILC members.</i></p>  |                                     |                 |
| 12.30   | Lunch                               |                 |
| <b>8. Site Visit</b>  |                                     |                 |
| 1.30 – 5.30   | Site Visit                          |                 |
| <p>+ <i>The following place will be visited: The Hydrogen Laboratory at the Federal University of Rio de Janeiro – LabH2 – COPPE/UFRJ; The Electrical Energy Research Center – CEPEL, and The Petrobras Research and Development Center – CENPES.</i></p> |                                     |                 |

**ATTACHMENT 1**

**Hydrogen and Fuel Cell Roadmap and  
Strategy Presentation Template**

**Title:** Hydrogen and Fuel Cell Roadmap Status Report for [Member Name]

**Vision:** Briefly describe your vision and time frame covered by the vision/roadmap

**Roadmap:**

- Provide the date the roadmap was completed and any plans you might have for updating
- List the top 1-3 roadmap priorities

**Implementation:**

- Briefly discuss status (or plans) in addressing the top 1-3 roadmap priorities
- Briefly describe major issues, problems, or concerns (if any)
- Briefly discuss how IPHE is involved in your roadmap (if at all)