

IEA HIA NEWS

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THE IEA HIA TODAY

The IEA HIA completed its 2004-2009 term of operation 30 June, 2009 and promptly began its new 2009-2014 five year term. *Our End of Term Report (EOT) 2004-2009* is a retrospective on a period of substantial growth in activity level, accomplishments, membership and capacity. Consistent with our tradition, the IEA HIA's new *Strategic Plan 2009-2014* is the product of a democratic, "bottom-up" team effort. For highlights of the retrospective EOT, see "Highlights and Success Stories 2004-2009" on the reverse side of this flyer. For the complete reports, see the IEA HIA website at www.ieahia.org.



IEA HIA Executive Committee Meetings

The IEA HIA Executive Committee (ExCo) held its 59th ExCo meeting 5-7 November, 2008 in Athens and its 60th ExCo meeting 27-29 May, 2009 in San Francisco, CA, USA. Immediately prior to the Athens meeting, the IEA HIA co-sponsored a Roads2HyCom workshop with the Greek Ministry of Development and the Center for Renewable Energy Sources (CRES). The workshop disseminated significant outputs of the European Commission's Roads2HyCo project on fuel cells and hydrogen in a sustainable energy economy. Dr. Steven Pearce, Co-Vice Chair, made the IEA HIA presentation. During our U.S. meeting, IEA HIA ExCo members were honored guests at the California Fuel Cell Partnership dedication of the hydrogen fueling station at the San Francisco Airport (SFO).

IEA HIA Portfolio

Task 27 - Near-Term Market Routes to Hydrogen by Co-Utilization of Biomass as a Renewable Energy Source with Fossil Fuel, received final approval at the 59th IEA HIA ExCo meeting in Athens. At the 60th meeting in San Francisco, Task 22 - Fundamental and Applied Hydrogen Storage Materials Development, was extended three years to 2012. Task 23 - Small-Scale Reformers for On-Site Hydrogen Supply (SSR for Hydrogen) received a two year extension to 2011. There are now nine current tasks. Definition of two new tasks - Analysis and Infrastructure & Mass Storage -- is to continue in the last quarter of 2009.

Outreach

In the summer of 2009 the IEA HIA made presentations at the World Hydrogen Technology Convention (WHTC) in New Delhi, India, and the S4FE Conference in Rome, Italy. The presentations were made, respectively, by Dr. Alberto Giaconia and Mr. Agostino Iacobazzi, both of ENEA. To make the case for hydrogen, the IEA HIA was invited to make a presentation at a Congressional briefing in the U.S. Senate on "Longstanding IEA Collaborations in Hydrogen and Fuel Cell Science and Technology: Global Investments in our Energy, Economic and Environmental Future." Speaking for the IEA HIA was our Secretariat Manager, Mary-Rose de Valladares. Finally, the IEA HIA is very pleased to announce that it is a Co-Organizer of the 3rd International Conference on Hydrogen Safety (ICH3) with the International Association for Hydrogen Safety (IA HySafe). ICH3, the premier world conference on hydrogen safety issues, takes place 16-18 September, 2009 at the Congress Palace in Ajaccio, Corsica, France. <http://www.ich3-ajaccio.com>.

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The tables below capture highlights and selected success stories from the *IEA HIA End of Term (EOT) Report 2004-2009*.

CRITERION	HIGHLIGHTS 2004-2009	NUMBER
Membership	Number of members at end of term	22 + three pending
Tasks	Number of R&D Tasks active during period	13 total + 1 in Definition
Level of Effort	Number of person years	~712
Expert Meetings	Task meetings	88
Publications/Articles	HIA summary publications	22
	Expert publications/articles	1,153
Presentations	HIA ExCo/Secretariat – Internal to IEA	12
	HIA ExCo/Secretariat – External to IEA	37
	Expert - All	1,015

TASK	SUCCESS STORIES 2004-2009 TERM
15 Photobiological Production	◆ R&D Progress toward development of H ₂ production by microalgae
16 Hydrogen from Carbon Containing Material	◆ State of the Art reports for all three subtasks: Subtask A - Large Scale Integrated H ₂ Production Decarbonisation; Subtask B – Prospects for H ₂ from Biomass; Subtask C – Small-scale Reformers for Stationary H ₂ Production with Minimum CO ₂ emissions. Benchmark industry participation.
17 Solid & Liquid Storage	◆ Huge contribution to literature -900+ publications and presentations plus 17 patents
18 Integrated Systems Evaluation	◆ World's best address for global information and analysis on H ₂ & integrated systems ◆ General conclusions in critical areas plus lessons learned and trend analysis
19 Safety	◆ Laying foundation for codes and standards regulatory framework and public comfort with H ₂
20 Hydrogen from Waterphotolysis	◆ Development, acceptance and operation of two multi-year R&D PEC programs ◆ WO3 PEC work led to novel, reliable & low-cost pollution control sensors for auto industry
21 BioHydrogen	◆ Better genomic understanding of H ₂ strict anaerobes
22 Fundamental & Applied Hydrogen Storage Materials	◆ World's largest collaboration on hydrogen storage materials R&D ◆ As of December 2008 produced 450+ publications/articles, 450+ presentations and 16 patents.
23 Small-Scale Reformers for On-site H ₂	◆ Contributing to development of norms for small-scale reformers to harmonize and fast track industrialization and carbon capture for H₂ infrastructure and future distributed generation
24 Wind Energy and H ₂ Integration	◆ Preparing for large-scale use of renewable wind energy for H ₂ production by addressing the entire wind production chain from technical, economic, social, environmental, market and legal perspectives
25 High Temp H ₂ Production	◆ Producing summary sheets on high temperature processes in both general and detailed versions



Message from the Chairman, Antonio G. García-Conde

As the IEA HIA embarks on its new 2009-2014 term, we seek to build on the achievements and lessons of our past in pursuit of our vision for a hydrogen future. Every member counts in this process. In the last quarter of 2009, the IEA HIA anticipates welcoming the United Nations Industrial Development Organization (UNIDO) as a new member – our first international organization member and a first-time member of any IEA Implementing Agreement as well! In the near term we also look forward to welcoming accession by the Russian Federation and Brazil.

Prospects for internal IEA cooperation are bright. In the first quarter of 2009, Co-Vice Chair Jan Jensen made a presentation to the IEA Working Party Fossil Fuel (WPF) as part of an effort to coordinate our activities more closely. There is also ample opportunity for cooperation outside the IEA. The IEA HIA is confident that our Co-Organization of the September 2009 ICHS3 will mark the beginning of a successful, long-term alliance with IA HySafe in support of public awareness and comfort with hydrogen.