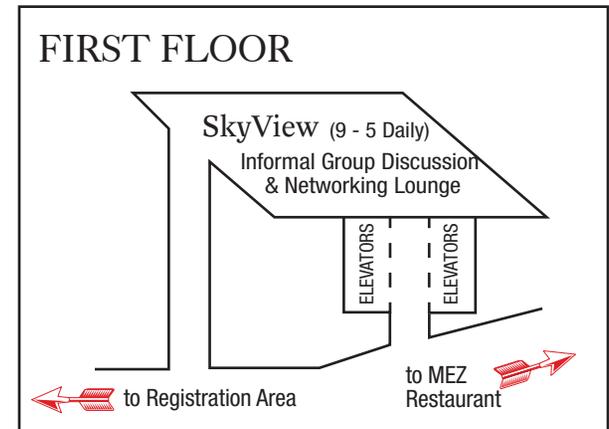
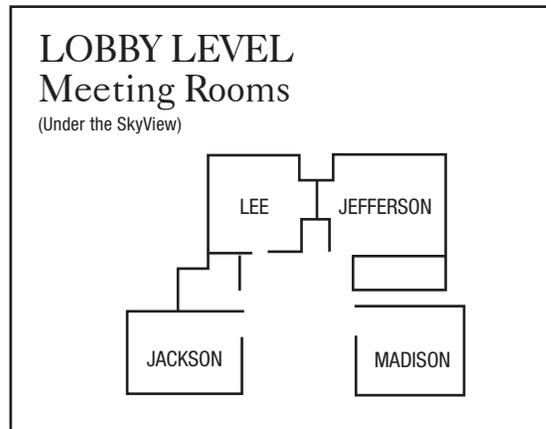
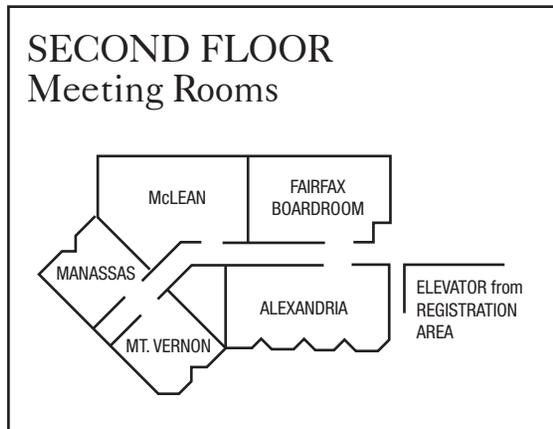
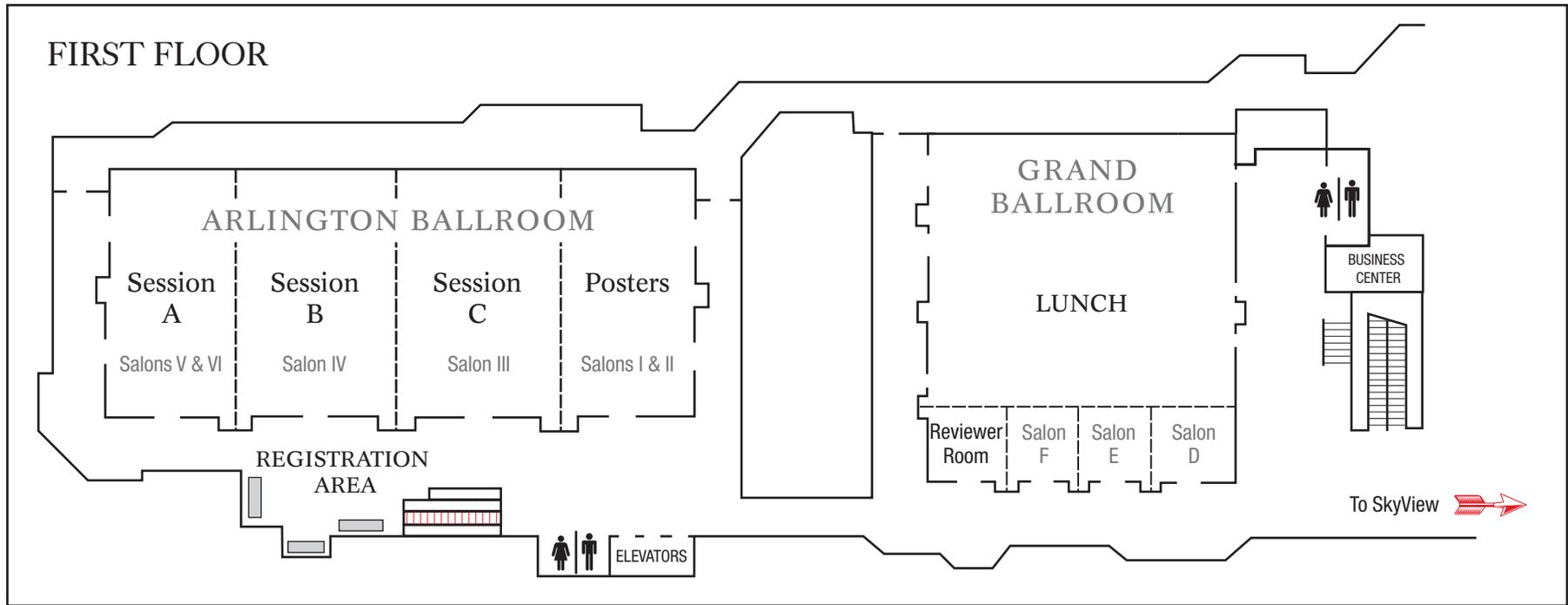


**Final 2007 Hydrogen Program Annual Review Block Schedule**

**Thursday, May 10, 2007**

	<b>15-May Tuesday</b>			<b>16-May Wednesday</b>			<b>17-May Thursday</b>			<b>18-May Friday</b>					
	Session A (Salons V&VI)	Session B (Salon IV)	Session C (Salon III)	Session A (Salons V&VI)	Session B (Salon IV)	Session C (Salon III)	Session A (Salons V&VI)	Session B (Salon IV)	Session C (Salon III)	Session A (Salons V&VI)	Session B (Salon IV)	Session C (Salon III)			
Start Time															
8:00 AM	<b>Plenary Session</b>			P&D	ST	FC Mem	AN	ST	BES Mem						
8:30 AM				P&D	ST	FC Mem	AN	ST	BES Mem	ED	TV				
9:00 AM				P&D	ST	FC Mem	AN	ST	BES Mem	ED	TV	FC Anal			
9:30 AM				P&D	ST	FC Mem	AN	ST	BES Mem	ED	TV	FC Char			
10:00 AM				Break	Break	Break	Break	Break	Break	Break	Break	Break	Break		
10:30 AM				P&D	ST	FC Mem	P&D	ST	FC Mem	AN	ST	BES Mem	ED	TV	FC Char
11:00 AM				P&D	ST	FC Mem	P&D	ST	FC Mem	AN	ST	BES Mem	ED	TV	FC Recycle
11:30 AM	P&D	ST	FC Mem	P&D	ST	FC Mem	AN	ST	BES Mem			FC Recycle			
12:00 PM	Lunch (12:00-1:15)			Program Award Lunch (12:00-1:15)			Lunch (12:00-1:15)								
1:15 PM	P&D	ST	FC Char	P&D	ST	FC Mem	AN	ST	BES Cat	P&D	Production and Delivery				
1:45 PM	P&D	ST	FC Char	P&D	ST	FC Mem	AN	ST	BES Cat	ST	Storage				
2:15 PM	P&D	ST	FC Char	P&D	ST	FC Mem	S,C&S	ST	BES Cat	FC	Fuel Cells				
2:45 PM	P&D	ST	FC Cat	P&D	ST	FC Mem	S,C&S	ST	BES Cat	TV	Technology Validation				
3:15 PM	Break	Break	Break	Break	Break	Break	Break	Break	Break	ED	Education				
3:30 PM	P&D	ST	FC Cat	P&D	ST	FC Mem	S,C&S	TV	BES Cat	S,C&S	Safety, Codes and Standards				
4:00 PM	P&D	ST	FC Cat	P&D	ST	FC Mem	S,C&S	TV	BES Cat	AN	Analysis				
4:30 PM	P&D	ST	FC Cat	P&D	ST	FC Mem	S,C&S	TV	BES Cat	BES	Basic Energy Sciences				
5:00 PM	P&D	ST	FC Char	P&D	ST	FC Mem	S,C&S	TV	BES Cat						
5:30 PM	P&D	ST	FC Char	P&D	ST	FC Mem	S,C&S	TV							
6:00 PM	<b>Poster Session 1, 6-8 PM</b> Production & Delivery and Fuel Cells			<b>Poster Session 2, 6-8 PM</b> Systems Analysis, Storage, and Fuel Cells			<b>Poster Session 3, 6-8 PM</b> Technology Validation, Fuel Cells, Basic Energy Sciences, and Safety, Codes & Standards								



# Crystal Gateway Marriott

## 2007 DOE HYDROGEN PROGRAM REVIEW

## Session A - 2007 Hydrogen Program Annual Review Oral Presentations (Salons V&VI)

Tuesday, May 15							Schedule as of: May 10, 2007
Number	Time	Presenter	Organization	TDM	Proj. Off.	Title	Sub-Program Category
	1:15 PM	Roxanne Garland	DOE			Hydrogen Production and Delivery Program Element	
PD 1	1:30 PM	Tim Aaron	Praxair	Anderson	Elam	Low Cost Hydrogen Production Platform	Distributed Production
PD 2	2:00 PM	Frank Lomax	H2Gen Inno. Inc.	Anderson	Elam	Low-Cost Hydrogen Distributed Production System	Distributed Production
PD 3	2:30 PM	Satish Tamhankar	Linde	Anderson	Elam	Integrated Hydrogen Production, Purification & Compression System	Distributed Production
PD 4	3:00 PM	Yong Wang	PNNL	Anderson	NA	Bio-Derived Liquids Reforming	Distributed Production
Break	3:40 PM						
PD 5	4:00 PM	Michael Roberts	GTI	Paster	Elam	One Step Biomass Gas Reforming-Shift Separation	Biological Production
PD 6	4:30 PM	Jerry Y.S. Lin	Arizona State U	Anderson	Elam	Zeolite Membrane Reactor for Water-Gas-Shift Reaction	Separations
PD 7	5:00 PM	Paul KT Liu	Media & Process Tech.	Anderson	Elam	Carbon Molecular Sieve Membrane as Reactor/Separator for Water Gas Shift Reaction	Separations
PD 8	5:30 PM	Kevin Harrison	NREL	R. Garland	NA	Renewable Electrolysis Integrated System Development	Electrolysis
Wednesday, May 16							Schedule as of: May 10, 2007
Number	Time	Presenter	Organization	TDM	Proj. Off.	Title	Sub-Program Category
PD 9	8:00 AM	Maria Ghirardi	NREL	R. Garland	NA	Biological Systems for Hydrogen Photoproduction	Biological Production
PD 10	8:30 AM	John Turner	NREL	R. Garland	NA	Photoelectrochemical Water Systems for H2 Production	Photoelectrochemical
PD 11	9:00 AM	Chris Perkins	UNLV	Paster	Elam	Development of Solar-powered Thermochemical Production of Hydrogen from Water	Hi-Temp Thermochemical
PD 12	9:30 AM	Bruce Kelly	Nexant Inc.	Paster	Gruber	Hydrogen Delivery Infrastructure Options Analysis	Hydrogen Delivery
Break	10:00 AM						
PD 13	10:30 AM	Petros Sofronis	U. of Illinois	Paster	Gruber	Hydrogen Embrittlement of Pipelines: Fundamentals, Experiments, Modeling	Delivery
PD 14	11:00 AM	Barton Smith	ORNL	Paster	NA	Fiber-Reinforced Polymer Pipelines for Hydrogen	Delivery
PD 15	11:30 AM	Doug Jack	Eltron Research Inc.	Cicero	Bose	Scale-up of Hydrogen Transport Membranes for IGCC and FutureGen Plants	Hydrogen From Coal
Lunch	12:00 PM						
PD 16	1:15 PM	Kent Coulter	Southwest Research Institute	Cicero	Bose	Cost-Effective Method for Producing Self-Supporting Pd Alloy Membrane for Use in the Efficient Production of Coal-derived Hydrogen	Hydrogen From Coal
PD 17	1:45 PM	Suzanne Opalka	United Technologies	Cicero	Bose	Advanced Water Gas Shift Membrane Reactor	Hydrogen From Coal
PD 18	2:15 PM	Thomas Barton	Western Res. Ins. & U of Wyoming Res.Corp.	Cicero	Flenory	Integration of a Structural Water Gas Shift Catalyst with a Vanadium Alloy Hydrogen Transport Device	Hydrogen From Coal
PD 19	2:45 PM	Robert Buxbaum	REB Research & Consulting	Cicero	Dunst	High Flux Metallic Membranes for Hydrogen Recovery & Membrane Reactors	Hydrogen From Coal
Break	3:15 PM						
PD 20	3:30 PM	Paul Pickard	SNL/GA/CEA	Sink	NA	Sulfur-Iodine Thermochemical Cycle	Nuclear Hydrogen Initiative
PD 21	4:00 PM	Bill Summers	SRS	Sink	NA	Hybrid Sulfur Thermochemical Process Development	Nuclear Hydrogen Initiative
PD 22	4:30 PM	Steve Herring	INL/ANL/Ceramatec	Sink	NA	Laboratory-Scale High Temperature Electrolysis	Nuclear Hydrogen Initiative
PD 23	5:00 PM	Steve Sherman	INL	Sink	NA	Nuclear Reactor/Hydrogen Process Interface	Nuclear Hydrogen Initiative

<b>Thursday, May 17</b>							<b>Schedule as of: May 10, 2007</b>
<b>Number</b>	<b>Time</b>	<b>Presenter</b>	<b>Organization</b>	<b>TDM</b>	<b>Proj. Off.</b>	<b>Title</b>	<b>Sub-Program Category</b>
	<b>8:15 AM</b>	<b>Fred Joseck</b>	<b>DOE</b>			<b>Systems Analysis Session Introduction</b>	
AN 1	8:30 AM	Brian D. James	Directed Techs.	Joseck	Gruber	Hydrogen Pathway Analysis using HyPro	Systems Analysis
AN 2	9:00 AM	Harry Vidas	EEA	Joseck	Gruber	Impact of Hydrogen Production on U.S. Energy Markets	Systems Analysis
AN 3	9:30 AM	George Tolley	RCF, Inc.	Joseck	Gruber	Analysis of the Hydrogen Production and Delivery Infrastructure as a Complex Adaptive System	Systems Analysis
Break	10:00 AM						
AN 4	10:30 AM	Johanna Levene	NREL	Joseck	NA	HyDRA: Hydrogen Demand and Resource Analysis Tool	Systems Analysis
AN 5	11:00 AM	Mark Ruth	NREL	Joseck	NA	Macro-System Model	Systems Analysis
AN 6	11:30 AM	Romesh Kumar	ANL	Joseck	NA	Hydrogen Quality Issues for Fuel Cell Vehicles	Systems Analysis
Lunch	12:00 PM						
AN 7	1:15 PM	Michael Wang	ANL	Joseck	NA	GREET WTW Analysis of Fuel-Cell Vehicles with Different Hydrogen Production Pathways	Systems Analysis
AN 8	1:45 PM	David Greene	ORNL	Joseck	NA	HyTrans Model: Analyzing the Transition to Hydrogen-Powered Transportation	Systems Analysis
	<b>2:15 PM</b>	<b>Antonio Ruiz</b>	<b>DOE</b>			<b>Safety, Codes, and Standards</b>	
SA 1	2:30 PM	Jim Ohi	NREL	Davis	NA	Hydrogen Codes and Standards	Safety, Codes & Stans.
SA 2	3:00 PM	Brian Somerday	SNL	Davis	NA	Materials Compatibility	Safety, Codes & Stans.
Break	3:30 PM						
SA 3	4:00 PM	Linda Fassbender	PNNL	Davis	NA	H2 Incident Reporting Database and H2 Safety Best Practices Website	Safety, Codes & Stans.
SA 4	4:30 PM	Jim Ohi	NREL/LANL	Ruiz	NA	Hydrogen Fuel Quality	Safety, Codes & Stans.
SA 5	5:00 PM	Chris Moen	SNL	Ruiz	NA	Hydrogen Release Behaviour	Safety, Codes & Stans.
SA 6	5:30 PM	Steven Weiner	PNNL	Davis	NA	Hydrogen Safety Panel	Safety, Codes & Stans.
<b>Friday, May 18</b>							<b>Schedule as of: May 10, 2007</b>
<b>Number</b>	<b>Time</b>	<b>Presenter</b>	<b>Organization</b>	<b>TDM</b>	<b>Proj. Off.</b>	<b>Title</b>	<b>Sub-Program Category</b>
	<b>8:45 AM</b>	<b>Christy Cooper</b>	<b>DOE</b>			<b>Education Session - DOE Overview</b>	
ED 1	9:00 AM	Jim Zoellick	Schatz Energy Research Center	Cooper	Gruber	Hydrogen Technology and Energy Curriculum (HyTEC)	Education
ED 2	9:30 AM	Rebecca Lamb	NEED	Cooper	Gruber	H2 Educate! Hydrogen Education for Middle Schools	Education
Break	10:00 AM						
ED 3	10:30 AM	Marylynn Placet	PNNL	Cooper	NA	Hydrogen Safety: First Responder Education	Education
ED 4	11:00 AM	Henry Gentenaar	The Media Network	Cooper	NA	Increasing "H2IQ": A Public Information Program	Education

**Session B - 2007 Hydrogen Program Annual Review Oral Presentations (Salon IV)**

<b>Tuesday, May 15</b>							<b>Schedule as of: May 10, 2007</b>
<b>Number</b>	<b>Time</b>	<b>Presenter</b>	<b>Organization</b>	<b>TDM</b>	<b>Proj. Off.</b>	<b>Title</b>	<b>Sub-Program Category</b>
ST 0	1:15 PM	Sunita Satyapal	DOE			<b>Hydrogen Storage - Session Review</b> DOE Hydrogen Sorption Center of Excellence (HS-CoE): Overview	Hydrogen Storage
ST 1	1:25 PM	Mike Heben	NREL	Read	NA	NREL Research as Part of the Hydrogen Sorption Center of Excellence	Sorption CoE
ST 2	1:55 PM	Anne Dillon	NREL	Read	NA	Center of Excellence	Sorption CoE
ST 3	2:25 PM	Ralph Yang	U of Michigan	Read	Adams	Hydrogen Storage by Spillover	Sorption CoE
ST 4	2:55 PM	Boris Yakobson	Rice U.	Read	Adams	Theoretical Models of H <sub>2</sub> -SWNT Systems for Hydrogen Storage and Optimization of SWNT	Sorption CoE
Break	3:25 PM						
ST 5	3:45 PM	Jim Tour	Rice U.	Read	Adams	Cloning Single Wall Carbon Nanotubes for Hydrogen Storage	Sorption CoE
ST 6	4:15 PM	Ted Baumann	LLNL	Read	NA	Carbon Aerogels for Hydrogen Storage	Sorption CoE
ST 7	4:45 PM	Alan Cooper	Air Products	Read	Adams	Enabling Discovery of Materials With a Practical Heat of H <sub>2</sub> Adsorption	Sorption CoE
ST 8	5:15 PM	Mike Chung	Penn State	Read	Adams	Advanced Boron and Metal Loaded High Porosity Carbons	Sorption CoE
<b>Wednesday, May 16</b>							<b>Schedule as of: May 10, 2007</b>
<b>Number</b>	<b>Time</b>	<b>Presenter</b>	<b>Organization</b>	<b>TDM</b>	<b>Proj. Off.</b>	<b>Title</b>	<b>Sub-Program Category</b>
ST 9	8:00 AM	Jack Fischer	U of Penn./Drexel Univ.	Read	Adams	Carbide-Derived Carbons with Tunable Porosity Optimized for Hydrogen Storage	Carbon-Independent Projects
ST 10	8:30 AM	Omar Yaghi	UCLA	Read	Adams	Hydrogen Storage in Metal-Organic Frameworks	Carbon-Independent Projects
ST 11	9:00 AM	Juergen Eckert	UC-Santa Barbara	Read	Alkire	Hydrogen Storage Materials with Binding Intermediate between Physisorption and Chemisorption	New Materials/Concepts
ST 12	9:30 AM	Greg Lewis	UOP	Read	Adams	Discovery of Novel Complex Metal Hydrides for Hydrogen Storage through Molecular Modeling and Combinatorial Methods	Metal Hydrides-Independent Projects
Break	10:00 AM						
ST 13	10:30 AM	Susanne Opalka	United Tech. Res. Center	Read	Adams	Complex Hydride Compounds with Enhanced Hydrogen Storage Capacity	Metal Hydrides-Independent Projects
ST 14	11:00 AM	Lennie Klebanoff	SNL	Stetson	NA	Metal Hydride Center of Excellence	Metal Hydride CoE
ST 15	11:30 AM	Ewa Ronnebro	SNL	Stetson	NA	Discovery and Development of Metal Hydrides for Reversible On-board Storage	Metal Hydride CoE
Lunch	12:00 PM						
ST 16	1:15 PM	J.C. Zhao	General Electric	Stetson	Bakke	Lightweight Intermetallics for Hydrogen Storage	Metal Hydride CoE
ST 17	1:45 PM	Karl Johnson	Univ. of Pittsburgh	Stetson	Bakke	First-Principles Modeling of Hydrogen Storage in Metal Hydride Systems	Metal Hydride CoE
ST 18	2:15 PM	Ping Liu	HRL Laboratories	Stetson	Bakke	Thermodynamically Tuned Nanophase Materials for Reversible Hydrogen Storage	Metal Hydride CoE
ST 19	2:45 PM	Craig Jensen	Univ. of Hawaii	Stetson	Bakke	Fundamental Studies of Advanced High-Capacity, Reversible Metal Hydrides	Metal Hydride CoE
Break	3:15 PM						
<b>Number</b>	<b>Time</b>	<b>Presenter</b>	<b>Organization</b>	<b>TDM</b>	<b>Proj. Off.</b>	<b>Title</b>	<b>Sub-Program Category</b>
ST 20	3:45 PM	Jason Graetz	BNL	Stetson	NA	Synthesis and Characterization of Alanes for Automotive Applications	Metal Hydride CoE
ST 21	4:15 PM	Zak Fang	Univ. of Utah	Stetson	Bakke	Chemical Vapor Synthesis and Discovery of H <sub>2</sub> Storage Materials: Li-Al-Mg-N-H System	Metal Hydride CoE
ST 22	4:45 PM	Don Anton	SRNL	Stetson	NA	Fundamental Safety Testing and Analysis of Hydrogen Storage Materials & Systems	Storage Analysis

<b>Thursday, May 17</b>							<b>Schedule as of: May 10, 2007</b>	
<u>Number</u>	<u>Time</u>	<u>Presenter</u>	<u>Organization</u>	<u>TDM</u>	<u>Proj. Off.</u>	<u>Title</u>	<u>Sub-Program Category</u>	
ST 23	8:00 AM	Alan Cooper	Air Products	Ordaz	Adams	Hydrogen Storage by Reversible Hydrogenation of Liquid-phase Hydrogen Carriers	Chemical Hydrogen-Indep.Projects	
ST 24	8:30 AM	Bill Tumas	LANL	Ordaz	NA	2007 DOE Chemical Hydrogen Storage Center of Excellence Overview	Chemical Hydrogen COE	
ST 25	9:00 AM	Suzanne Linehan	Rohm and Haas	Ordaz	Alkire	DOE Chemical Hydrogen Storage Center of Excellence - Novel Approaches to Hydrogen	Chemical Hydrogen COE	
ST 26	9:30 AM	Digby Macdonald	Penn State	Ordaz	Alkire	Electrochemical Hydrogen Storage Systems	Chemical Hydrogen COE	
Break	10:00 AM							
ST 27	10:30 AM	Larry Sneddon	U of Penn.	Ordaz	Alkire	Amineborane-Based Chemical Hydrogen Storage	Chemical Hydrogen COE	
ST 28	11:00 AM	Chris Aardahl	PNNL	Ordaz	NA	PNNL Research as part of the Chemical Hydrogen CoE	Chemical Hydrogen COE	
ST 29	11:30 AM	Tom Baker	LANL	Ordaz	NA	Chemical Hydrogen Storage R&D at Los Alamos National Laboratory	Chemical Hydrogen COE	
Lunch	12:00 PM							
ST 30	1:15 PM	David Dixon	U of Alabama	Ordaz	Alkire	Main Group Element and Organic Chemistry for Hydrogen Storage and Activation	Chemical Hydrogen COE	
ST 31	1:45 PM	Rajesh Ahluwalia	ANL	Satyapal	NA	System Level Analysis of Hydrogen Storage Options	Storage Testing, Safety and Analysis	
ST 32	2:15 PM	Stephen Lasher	TIAX	Satyapal	Alkire	Analyses of Hydrogen Storage Materials and On-Board Systems	Storage Testing, Safety and Analysis	
ST 33	2:45 PM	Karl Gross	NREL/HyEnergy	Satyapal	NA	Best Practices for Characterizing Hydrogen Storage Properties of Materials	Storage Testing, Safety and Analysis	
Break	3:15 PM							
TV 0	<b>3:30 PM</b>	<b>John Garbak</b>	<b>DOE</b>			<b>Technology Validation</b>	Technology Validation	
TV 1	3:45 PM	Klaus BonHoff	DaimlerChrysler	Garbak	Hooker	Hydrogen to the Highways	Vehicle Demonstrations	
TV 2	4:05 PM	Greg Frenette	Ford	Garbak	Hooker	Hydrogen Fuel Cell Vehicle & Infrastructure	Vehicle Demonstrations	
TV 3	4:25 PM	Dan Casey	Chevron	Garbak	Hooker	Controlled Hydrogen Fleet and Infrastructure	Vehicle Demonstrations	
TV 4	4:45 PM	Roz Sell	General Motors	Garbak	Hooker	Hydrogen Vehicle and Infrastructure Demonstration and Validation	Vehicle Demonstrations	
TV 5	5:05 PM	Keith Wipke	NREL	Garbak	NA	Controlled Hydrogen Fleet & Infrastructure Analysis	Analysis	
<b>Friday, May 18</b>							<b>Schedule as of: May 10, 2007</b>	
<u>Number</u>	<u>Time</u>	<u>Presenter</u>	<u>Organization</u>	<u>TDM</u>	<u>Proj. Off.</u>	<u>Title</u>	<u>Sub-Program Category</u>	
TV 6	8:30 AM	Dan Tyndall	Air Products	Garbak	Alkire	Validation of an Integrated Hydrogen Energy Station	Power Parks Analysis	
TV 7	9:00 AM	Ed Heydorn	Air Products	Garbak	Alkire	California Hydrogen Infrastructure Project	Vehicle Demonstrations	
TV 8	9:30 AM	Salvador Aceves	LLNL	Garbak	NA	Cryogenic Capable Pressure Vessels for Vehicular Hydrogen Storage	Vehicle Demonstrations	
Break	10:00 AM							
TV 10	10:30 AM	Leslie Eudy	NREL	Garbak	NA	Technology Validation: Fuel Cell Bus Evaluations	Systems Analysis	

**Session C - 2007 Hydrogen Program Annual Review Oral Presentations (Salon III)****Tuesday, May 15****Schedule as of: May 10, 2007**

<u>Number</u>	<u>Time</u>	<u>Presenter</u>	<u>Organization</u>	<u>TDM</u>	<u>Proj. Off.</u>	<u>Title</u>	<u>Sub-Program Category</u>
FC 0	1:15 PM	Nancy Garland	DOE			Fuel Cells	Fuels Cells
FC 1	1:30 PM	Rajesh Ahluwalia	ANL	Garland	NA	Fuel Cell Systems Analysis	Analysis/Characterization
FC 2	2:00 PM	David Jacobson	NIST	Garland	NA	Neutron Imaging Study of the Water Transport in Operating Fuel Cells	Analysis/Characterization
FC 3	2:30 PM	Karren More	ORNL	Garland	NA	Microstructural Characterization Of PEM Fuel Cell MEAs	Analysis/Characterization
FC 4	3:00 PM	Radoslav Atanasoski	3M	Garland	Peterson	Novel Approach to Non-Precious Metal Catalysts	Catalysts
Break	3:30 PM						
FC 5	3:50 PM	Branko N. Popov	U of So. Carolina	Garland	Tyler	Novel Non-Precious Metals for PEMFC: Catalyst Selection through Molecular Modeling and Durability Studies	Catalysts
FC 6	4:20 PM	Stephen Campbell	Ballard	Garland	Peterson	Development of transition metal/ chalcogen based cathode catalysts for PEM fuel cells	Catalysts
FC 7	4:50 PM	Bryan Pivovar	LANL	Garland	NA	Applied Science for Electrode Cost, Performance, and Durability	Analysis/Characterization

**Wednesday, May 16****Schedule as of: May 10, 2007**

<u>Number</u>	<u>Time</u>	<u>Presenter</u>	<u>Organization</u>	<u>TDM</u>	<u>Proj. Off.</u>	<u>Title</u>	<u>Sub-Program Category</u>
FC 8	8:00 AM	John Vogel	Plug Power	Epping	Peterson	Development of Polybenzimidazole-based High Temperature Membrane and Electrode Assemblies for Stationary Applications	Membranes
FC 9	8:30 AM	Jung Yi	Arkema Chemicals	Manheim	Tyler	Development of a Low-cost, Durable Membrane and MEA for Stationary and Mobile Fuel Cell Applications	Membranes
FC 10	9:00 AM	Mike Yandrasits	3M	Manheim	Tyler	MEA & Stack Durability for PEM Fuel Cells	Membranes
FC 11	9:30 AM	Robert Moore	U of So. Mississippi	Manheim	Peterson	Improved Membrane Materials for PEM Fuel Cell Applications	Membranes
Break	10:00 AM						
FC 12	10:30 AM	Morton Litt	Case Western Reserve University	Manheim	Adams	Poly(p-phenylene Sulfonic Acid)s with Frozen-in Free Volume for use in High Temperature Fuel Cells	Membranes
FC 13	10:50 AM	Jimmy Mays	U of Tennessee	Manheim	Tyler	Poly(cyclohexadiene)-Based Polymer Electrolyte Membranes for Fuel Cell Applications	Membranes
FC 25	11:10 AM	Denise Katona	Chemsultants International	Devlin	Peterson	Center for Intelligent Fuel Cell Materials Design Phase 1	Membranes
FC 15	11:30 AM	James Fenton	U of Central Florida	Manheim	Peterson	Lead Research and Development Activity for DOE's High Temperature, Low Relative Humidity Membrane Program	Membranes
Lunch	12:00 PM						
FC 16	1:15 PM	Dominic Gervasio	Arizona State	Manheim	Gruber	Protic Salt Polymer Membranes: High-Temperature Water-Free Proton-Conducting Membranes	Membranes
FC 17	1:35 PM	Andrew Herring	Colorado School of Mines	Manheim	Peterson	Novel Approaches to Immobilized Heteropoly Acid (HPA) Systems for High Temperature, Low Relative Humidity Polymer-Type Membranes	Membranes
FC 18	1:55 PM	Ludwig Lipp	FuelCell Energy, Inc.	Manheim	Tyler	High Temperature Membrane with Humidification-Independent Cluster Structure	Membranes
FC 19	2:15 PM	Ryo Tamaki	GE Global Research	Manheim	Peterson	Design and Development of High-Performance Polymer Fuel Cell Membranes	Membranes
FC 20	2:35 PM	Stephen Creager	Clemson	Manheim	Tyler	Fluoroalkyl-phosphonic-acid-based proton conductors	Membranes
Break	3:15 PM						
<u>Number</u>	<u>Time</u>	<u>Presenter</u>	<u>Organization</u>	<u>TDM</u>	<u>Proj. Off.</u>	<u>Title</u>	<u>Sub-Program Category</u>
FC 21	3:30 PM	Cortney Mittelsteadt	Giner	Manheim	Gruber	Dimensionally Stable Membranes	Membranes
FC 22	3:50 PM	Serguei Lvov	Penn State	Manheim	Adams	New Proton Conductive Composite Materials with Co-continuous Phases Using Functionalized and Crosslinkable VDF/CTFE Fluoropolymers	Membranes
FC 23	4:10 PM	James McGrath	Virginia Tech	Manheim	Adams	Advanced Materials for Proton Exchange Membranes	Membranes
FC 24	4:30 PM	Han Liu	Giner Inc.	Marcinkoski	NA	Dimensionally Stable High Performance Membrane	Membranes
FC 14	4:50 PM	Peter Pintauro	Case Western Rese	Manheim	Adams	NanoCapillary Network Proton Conducting Membranes for High Temperature Hydrogen/Air Fuel Cells	Membranes

Thursday, May 17						Schedule as of: May 10, 2007	
Number	Time	Presenter	Organization	Prog. Off.	Title	Sub-Program Category	
BES 0	8:00 AM	Harriet Kung			Welcome Address		
BES 1	8:10 AM	Hector Abruna	Cornell University	Kelley	Transport Phenomena and Interfacial Kinetics in Planar Microfluidic Membraneless Fuel Cells	Membranes	
BES 2	8:35 AM	Raymond Gorte	University of Pennsylvania	Millman	The Development of Nano-Composite Electrodes for Natural Gas-Assisted Steam Electrolysis for Hydrogen Production	Membranes	
BES 3	9:00 AM	Lutgard De Jonghe	Lawrence Berkeley Nat. Lab.	Kortan	Nanocomposite Proton Conductors	Membranes	
BES 4	9:25 AM	Joseph DeSimone	U of North Carolina at Chapel Hill	Kini	Proton Exchange Membranes for Next Generation Fuel Cells	Membranes	
BES 5	9:40 AM	Klaus Schmidt-Rohr	Iowa State University	Kelley	Water Nanochannels in Nafion®: Quantitative Scattering Analysis and NMR	Membranes	
Break	10:05 AM						
BES 6	10:25 AM	Michel Dupuis	Pacific Northwest Nat. Lab.	Millman	Charge Transfer, Transport, and Reactivity in Complex Molecular Environments: Theoretical Studies for the Hydrogen Fuel Initiative	Membranes	
BES 7	10:50 AM	William Goddard, III	California Inst. of Tech.	Millman	Polymer Functionalized Zeolite Proton Exchange Membrane (PFZ-PEM) for Medium Temperature (>120°C) Fuel Cells from Theory, Simulation, and Experiment	Membranes	
BES 8	11:15 AM	Gregory Voth	University of Utah	Millman	Computer Simulation of Proton Transport in Fuel Cell Membranes	Membranes	
BES 9	11:40 AM	Steven Regen	Lehigh University	Millman	Porous and Glued Langmuir-Blodgett Membranes	Membranes	
Lunch	12:05 PM						
	1:15 PM						
BES 10	1:20 PM	Maria Flytzani-Stephanopoulos	Tufts University	Miranda	Catalysis Introduction Nanostructured, Metal-Ion Modified Ceria and Zirconia Oxidation Catalysts	Catalysis	
BES 11	1:45 PM	Ram Seshadri	U of California, Santa Barbara	Miranda	Nanostructured Metal Carbide Catalysts for the Hydrogen Economy	Catalysis	
BES 12	2:10 PM	Anders Nilsson	Stanford Linear Accelerator Center	Kerch	Development and Mechanistic Characterization of Alloy Fuel Cell Catalysts	Catalysis	
BES 13	2:35 PM	Manos Mavrikakis	University of Wisconsin-Madison	Miranda	Atomic-scale Design of a New Class of Alloy Catalysts for Reactions Involving Hydrogen: A Theoretical and Experimental Approach	Catalysis	
BES 14	3:00 PM	Radoslav Adzic	Brookhaven National Lab.	Maupin	Metal and Metal Oxide-Supported Platinum Monolayer Electrocatalysts for Oxygen Reduction	Catalysis	
Break	3:25 PM						
BES 15	3:40 PM	Carol Korzeniewski	Texas Tech University	Kelley	Strategies for Probing Nanometer-Scale Electrocatalysts: From Single Particles to Catalyst-Membrane Architectures	Catalysis	
BES 16	4:05 PM	Perla Balbuena	Texas A&M University	Maupin	Reactivity and Stability of Multimetallic Nanocatalysts in Acid Medium	Catalysis	
BES 17	4:25 PM	Hoydoo You	Argonne National Laboratory	Kelley	Studies of Model Electrocatalysts for Fuel-Cell Cathodes	Catalysis	
BES 18	4:50 PM	Scott Barnett	Northwestern University	Kortan	High Performance Nano-Crystalline Oxide Fuel Cell Materials: Defects, Structures, Interfaces, Transport, and Electrochemistry	Catalysis	
Friday, May 18						Schedule as of: May 10, 2007	
Number	Time	Presenter	Organization	TDM	Proj. Off.	Title	Sub-Program Category
FC 26	9:00 AM	Kathya Mahadevan	Battelle	Epping	Peterson	Market Opportunity Assessment for Direct Hydrogen PEM Fuel Cells in Pre-automotive Markets	Stationary
FC 27	9:30 AM	Stephen Lasher	TIAX	Marcinkoski	Gruber	Direct Hydrogen PEMFC Manufacturing Cost Estimation for Automotive Applications	Analysis/Characterization
	10:00 AM						
FC 28	10:30 AM	Brian James	DTI	Marcinkoski	Gruber	Mass Production Cost Estimation for Direct H2 PEM Fuel Cell System for Automotive Applications	Analysis/Characterization
FC 29	11:00 AM	Stephen Grot	Ion Power, Inc.	Anderson	Tyler	Platinum Recycling Technology Development	Recycling
FC 30	11:30 AM	Larry Shore	BASF	Anderson	Peterson	Platinum Group Metal Recycling Technology Development	Recycling

**Tuesday Poster Session - 2007 Hydrogen Program Annual Review (Salons I&II, 6-8 PM)****Production and Delivery Sub-Program Posters, Tuesday May 15****Schedule as of: May 10, 2007**

<b>Number</b>	<b>Presenter</b>	<b>Organization</b>	<b>TDM</b>	<b>Proj. Off.</b>	<b>Title</b>	<b>Sub-Program Category</b>
PDP 1	Ying She	UTRC	Paster	Gruber	A Novel Slurry Based Biomass Reforming Process	Central Biomass
PDP 2	Qing Xu	Venter Institute	R. Garland	Elam	Hydrogen from Water in a Novel Recombinant Oxygen-Tolerant Cyanobacteria System	Biological Production
PDP 3	John Peters	Montana State University	R. Garland	Elam	Montana Palladium Research Initiative: Use of Biological Materials and Biologically Inspired Materials for H <sub>2</sub> Catalysis	Biological Production
PDP 4	George Philippidis	Florida International	R. Garland	Gruber	Photobiological Hydrogen Research	Biological Production
PDP 5	Michael Martin	Edison Materials	Devlin	Gruber	Developing Improved Materials to Support the Hydrogen	Compressed/Liquid Tanks
PDP 6	Umit Ozkan	Ohio State U	Anderson	Gruber	Investigation of Bio-ethanol Steam Reforming over Cobalt-based Catalysts	Distributed Production
PDP 7	Bob Evans	NREL	Anderson	NA	Distributed Bio-Oil Reforming	Distributed Production
PDP 8	Randy Cortright	Virent Energy Sys.	Anderson	Elam	Hydrogen Generation from Biomass-Derived Carbohydrates via Aqueous-Phase Reforming Process	Distributed Production
PDP 9	Ke Liu	GE Global Res.	Anderson	Elam	Integrated Short Contact Time Hydrogen Generator (SCPO)	Distributed Production
PDP 10	Joseph Schwartz	Praxair	Anderson	Elam	Integrated Ceramic Membrane System for Hydrogen Production	Distributed Production
PDP 11	Scott Hopkins	Pall Corp.	Anderson	Elam	High-Performance, Durable, Palladium-Alloy Membrane for	Separations
PDP 12	Cecelia Copley	Giner Electrochemical	R. Garland	Gruber	Low-Cost, High-Pressure Hydrogen Generator	Electrolysis
PDP 13	Steve Cohen	Distributed Energy	R. Garland	Gruber	Hydrogen Generation from Electrolysis	Electrolysis
PDP 14	Greg Tao	Materials and Systems Research	R. Garland	Peterson	Development of a Novel Efficient Solid-Oxide Hybrid for Co-generation of Hydrogen and Electricity Using Nearby	Electrolysis
PDP 15	Jie Guan	GE HPGS	R. Garland	Peterson	High Performance Flexible Reversible Solid Oxide Fuel Cell	Electrolysis
PDP 16	Richard Bourgeois	GE Global Res.	R. Garland	Bakke	Advanced Alkaline Electrolysis	Electrolysis
PDP 17	Harold Garabedian	EVERmont, Inc.	R. Garland	Gruber	EVERmont Renewable Hydrogen Fueling System	Electrolysis
PDP 18	Muralidharan Govindarajan	ORNL	Paster	Gruber	Materials Solutions for Hydrogen Delivery in Pipelines	Hydrogen Delivery
PDP 19	David Moyer	Concurrent Tech. Corp	Paster	Gruber	Hydrogen Regional Infrastructure Program in Pennsylvania	Cross-Cutting
PDP 20	Todd Francis	U of Colorado	Paster	Gruber	Fundamentals of a Solar-thermal Mn <sub>2</sub> O <sub>3</sub> /MnO Thermochemical Cycle to Split Water	Hi-Temp Thermochemical
PDP 21	Mark Fokema	Aspen Products Group	Cicero	Bose	High Purity Hydrogen from Coal-Derived Syngas	Hydrogen from Coal
PDP 22	Gerald Huffman	U of Kentucky Consortium	Cicero	Krastman	Novel Methods of Hydrogen Production Using C1 Chemistry	Hydrogen from Coal
PDP 23	Michele Lewis	ANL	Sink	NA	Alternative Thermochemical Cycle Evaluation	Nuclear Hydrogen Initiative
PDP 24	Tony Hechanova	UNLV	Sink	NA	UNLV Research Foundation High Temperature Heat Exchanger Development	Nuclear Hydrogen Initiative
PDP 25	Brian Bischoff	ORNL	Sink	NA	Membrane Applications for Nuclear Hydrogen Production Processes	Nuclear Hydrogen Initiative
PDP 26	Joe Hartvigsen	Ceramatec	Sink	NA	Test of High Temperature Electrolysis ILS Half Module	Nuclear Hydrogen Initiative
PDP 27	Bilge Yildiz	ANL	Sink	NA	Thermal-fluid and Flow-sheet Modeling of HTE Systems, and In Situ X-ray and Electro-chemical Studies of HTE	Nuclear Hydrogen Initiative
PDP 28	Dan Ginosar	INL	Sink	NA	NHI Catalyst and Membrane Studies for Thermochemical Cycles at INL	Nuclear Hydrogen Initiative
PDP 29	Steve Sherman	INL	Sink	NA	HyPEP Model Development	Nuclear Hydrogen Initiative

**Tuesday Poster Session - 2007 Hydrogen Program Annual Review (Salons I&II, 6-8 PM)****Production and Delivery Sub-Program Posters (Con't), Tuesday May 15****Schedule as of: May 10, 2007**

PDP 30	David Carter	ANL	Sink	NA	Materials Issues and Experiments for HTE and SO <sub>3</sub> Electrolysis	Nuclear Hydrogen Initiative
PDP 31	Bunsen Wong	General Atomics	Sink	NA	Corrosion and Crack Growth Studies of Heat Exchanger Construction Materials for HI Decomposition in the Sulfur-Iodine Hydrogen Cycle	Nuclear Hydrogen Initiative
PDP 32	Mike Hickner	SNL	Sink	NA	Membrane Development for Hybrid Sulfur Electrolysis and Oxygen Separation	Nuclear Hydrogen Initiative
PDP 33	Tasios Melis	UC Berkeley	R. Garland	Elam	Maximizing Light Utilization Efficiency & Hydrogen Production in Microalgal Cultures	Biological Production
PDP 34	Liwei Xu	Midwest Optoelectronics	R. Garland	Elam	Critical Research for Cost-effective Photoelectrochemical Production of Hydrogen	Photoelectrochemical
PDP 35	James Allen	Arizona State U	R. Garland	Gruber	Combinatorial Development of Water Splitting Catalysts Based on the Oxygen Evolving Complex of Photosystem II	Photoelectrochemical
PDP 36	Mano Misra	U of Nev. Reno	R. Garland	Elam	Photoelectrochemical Generation of Hydrogen Using Sonic Mediated Hybrid Titania Nanotube Arrays	Photoelectrochemical
PDP 37	Eric Miller	UNLV	R. Garland	Elam	Photoelectrochemical Hydrogen Production: UNLV-SHGR Program Subtask	Photoelectrochemical
PDP 38	Thomas McNulty	GE Global Res.	R. Garland	Elam	Solar Water Splitting: Photocatalyst Materials Discovery	Photoelectrochemical
PDP 39	Xunming Deng	University of Toledo/Bowling	R. Garland	Elam	Production of Hydrogen for Clean and Renewable Source of Energy for Fuel Cell Vehicles	Photoelectrochemical
PDP 40	Andres Marquez	Ohio University	R. Garland	Peterson	Adapting Planar Solid Oxide Fuel Cells for Distributed Power Generation	Production
PDP 41	Yogi Goswami	U of South Florida	Ordaz	Tyler	Hydrogen Production and Fuel Cell Research	Production
PDP 42	David Bayless	Ohio University	R. Garland	Peterson	Distributed Energy Project	Production
PDP 43	Paul Matthews	Acumentrics	Devlin	Tyler	Solid Oxide Fuel Cell Carbon Sequestration	Production
PDP 44	Martin Shimko	Gas Equipment	Paster	Gruber	Innovative Hydrogen Liquefaction Cycle	Delivery

**Tuesday Poster Session - 2007 Hydrogen Program Annual Review (Salons D&E, 6-8 PM)****Fuel Cells Sub-Program Posters, Tuesday, May 15****Schedule as of: May 10, 2007**

<b>Number</b>	<b>Presenter</b>	<b>Organization</b>	<b>TDM</b>	<b>Proj. Off.</b>	<b>Title</b>	<b>Sub-Program Category</b>
FCP 1	Tommy Rockward	LANL	Garland	NA	Component Benchmarking Subtask Reported: USFCC	Analysis/Characterization
FCP 2	Stuart Snyder	Montana State University	Anderson	Elam	Montana Palladium Research Initiative: Detection of Trace Platinum Group Element Particulates with Laser Spectroscopy	Analysis/Characterization
FCP 3	Ira Bloom	ANL	Garland	NA	Fuel Cell Testing at the Argonne Fuel Cell Test Facility	Analysis/Characterization
FCP 4	Joel Berry	Kettering University	Epping	Peterson	Kettering University Fuel Cell Project	Analysis/Characterization
FCP 5	Mike Perry	UTC Power	Epping	Gruber	PEM Fuel Cell Freeze Durability and Cold Start Project	Analysis/Characterization
FCP 6	Satish Mohapatra	Advanced Fluids Tech.	Marcinkoski	NA	Complex Coolant Fluid for PEM Fuel Cell Systems	BOP
FCP 7	Keith Kepler	Farasis Energy	Marcinkoski	NA	Combinatorial Method for Developing Cathode Catalysts for	Catalysts
FCP 8	John Van Zee	U of So. Carolina	Manheim	Tyler	Fuel Cell Research at the University of South Carolina	Cross-Cutting
FCP 9	Steven Chuang	University of Akron	Manheim	Tyler	Development of a 5 kW Prototype Coal-based Fuel Cell	Innovative Concepts
FCP 34	Durai Swamy	Intelligent Energy	Epping	Peterson	Development and Demonstration of a New-generation High Efficiency 2-5 kW Stationary PEM Fuel Cell System	Distributed Energy
FCP 36	Robert Sievers	MTI Micro Fuel Cells	Armstrong	Tyler	DMFC Prototype Demonstration for Consumer Electronic Applications	Portable Power
FCP 37	Jim McElroy	Bloom Energy Corp.	Marcinkoski	Peterson	Low-cost Co-production of Hydrogen and Electricity	Electrolysis
CCP 1	Charles Ryan	National Center for Manufacturing Sciences (NCMS)	Milliken	Adams	Advanced Manufacturing Technologies for Renewable Energy Applications – a DoE/NCMS Partnership	Cross-Cutting

**Wednesday Poster Session - 2007 Hydrogen Program Annual Review (Salons I&II, 6-8 PM)****Systems Analysis Sub-Program Posters, Wednesday May 16**Schedule as of: **May 10, 2007**

<u>Number</u>	<u>Presenter</u>	<u>Organization</u>	<u>TDM</u>	<u>Proj. Off.</u>	<u>Title</u>	<u>Sub-Program Category</u>
ANP 1	Stephen Lasher	TIAX	Joseck	NA	Impact of Renewables on Hydrogen Transition Analysis	Systems Analysis
ANP 2	Todd Ramsden	NREL	Joseck	NA	Hydrogen Technology Analysis: H2A Production Model	Systems Analysis
ANP 3	Cory Welch	NREL	Joseck	NA	System Dynamics: HyDIVE™ (Hydrogen Dynamic Infrastructure and Vehicle Evolution) Model	Systems Analysis
ANP 5	Melissa Lott	ATS	Joseck	NA	Analysis Repository	Systems Analysis

**Storage Sub-Program Posters, Wednesday May 16**Schedule as of: **May 10, 2007**

<u>Number</u>	<u>Presenter</u>	<u>Organization</u>	<u>TDM</u>	<u>Proj. Off.</u>	<u>Title</u>	<u>Sub-Program Category</u>
STP 1	Dan Neumann	NIST	Read	NA	Neutron Characterization in support of the Hydrogen Sorption Center of Excellence	Carbon and MH Centers of Excellence
STP 2	Pen-Cheng Wang	U of Penn.	Read	Adams	Conducting Polymers as New Materials for Hydrogen Storage	Carbon CoE
STP 3	Yue Wu	U of North Carolina	Read	Adams	Characterization of Hydrogen Adsorption by NMR	Carbon CoE
STP 4	Jie Liu	Duke U	Read	Adams	Synthesis of Small Diameter Carbon Nanotubes and Microporous Carbon Materials for Hydrogen Storage	Carbon CoE
STP 5	Lin Simpson	NREL	Read	NA	DOE Hydrogen Sorption Center of Excellence (HS-CoE): Overview	Carbon CoE
STP 6	David Geohegan	ORNL	Read	NA	Single-Walled Carbon Nanohorns for Hydrogen Storage and Catalyst Supports	Carbon CoE
STP 7	Channing Ahn	CalTech	Read	Adams	Enhanced Hydrogen Dipole Physisorption	Carbon CoE
STP 8	Clint Lane	Northern Arizona U.	Ordaz	Alkire	Applied Research on the Use of Amine-Borane Materials for Hydrogen Storage	Chemical Hydrogen COE
STP 9	Bill Tumas	LANL	Ordaz	NA	2007 DOE Chemical Hydrogen Storage Center of Excellence Overview	Chemical Hydrogen COE
STP 10	Karen Goldberg	U of Washington	Ordaz	Alkire	Solutions for Chemical Hydrogen Storage: Hydrogenation/Dehydrogenation of B-N Bonds	Chemical Hydrogen COE
STP 11	Fred Hawthorne	UMO	Ordaz	Alkire	Chemical Hydrogen Storage Using Polyhedral Borane Anion Salts	Chemical Hydrogen COE
STP 12	Oscar Moreno	Millennium Cell	Ordaz	Alkire	Development of an Advanced Chemical Hydrogen Storage and Generation System	Chemical Hydrogen COE
STP 13	Jonathan Melman	Intematix	Ordaz	Alkire	Combinatorial Synthesis and High Throughput Screening of Effective Catalysts for Chemical Hydrides	Chemical Hydrogen COE
STP 14	Susan Kauzlarich	UC Davis	Ordaz	Alkire	Chemical Hydrogen Storage using Ultra-High Surface Area Main Group Materials & The Development of Efficient Amine-Borane Regeneration Cycles	Chemical Hydrogen COE
STP 15	Oscar Moreno	Millenium Cell, Inc.	Ordaz	Alkire	Process for the Regeneration of Sodium Borate to Sodium Borohydride	Chemical Hydrogen-Indep.Projects
STP 16	Andrew McClaine	Safe Hydrogen, LLC	Ordaz	Adams	Chemical Hydride Slurry for Hydrogen Production and Storage	Chemical Hydrogen-Indep.Projects
STP 17	Clemens Heske	UNLV	Read	Adams	Hydrogen Fuel Cells and Storage Technology Project	Cross-Cutting Projects
STP 18	Lee Stefanakos	U of South Florida	Ordaz	Tyler	Hydrogen Storage Research	Cross-Cutting Projects
STP 19	Abhijit Bhattacharyya	U of Arkansas	Ordaz	Tyler	An Integrated Approach for Hydrogen Production and Storage	Cross-Cutting Projects
STP 20	James Ritter	U of South Carolina	Read	Bakke	Expanding Clean Energy Research and Education Program at the University of South Carolina	Cross-Cutting Projects
STP 22	Jay Gore	Purdue University	Read	Peterson	Purdue Hydrogen Systems Laboratory	Cross-Cutting Projects
STP 23	Andrew Goudy	Delaware State	Read	Tyler	Center for Hydrogen Storage Research at Delaware State	Cross-Cutting Projects
STP 24	Gilbert Brown	ORNL	Stetson	NA	Complex Hydrides for Hydrogen Storage Studies of the Al(BH4)3 System	Metal Hydride CoE
STP 25	Darshan Kundaliya	Intematix	Stetson	Bakke	High Throughput Combinatorial Chemistry Development of Complex Hydrides	Metal Hydride CoE

**Wednesday Poster Session - 2007 Hydrogen Program Annual Review (Salons I&II, 6-8 PM)****Storage Sub-Program Posters, Wednesday May 16**Schedule as of: **May 10, 2007**

<b>Number</b>	<b>Presenter</b>	<b>Organization</b>	<b>TDM</b>	<b>Proj. Off.</b>	<b>Title</b>	<b>Sub-Program Category</b>
STP 26	Bruce Clemens	Stanford U	Stetson	Bakke	Thermodynamically Tuned Nanophase Materials for Reversible Hydrogen Storage: Structure & Kinetics of Nanoparticle and Model System Materials	Metal Hydride CoE
STP 27	Ragaiy Zidan	SRNL	Stetson	NA	Alane Electrochemical Recharging	Metal Hydride CoE
STP 28	Channing Ahn	California Institute of Tech	Stetson	Bakke	Synthesis of Nanophase Materials for Thermodynamically Tuned Reversible Hydrogen Storage	Metal Hydride CoE
STP 29	Dhanesh Chandra	U of Nevada, Reno	Stetson	Bakke	Effect of Trace Elements on Long-Term Cycling and Aging Properties of Complex Hydrides for Hydrogen Storage	Metal Hydride CoE
STP 30	Lennie Klebanoff	Sandia-Livermore	Stetson	NA	Metal Hydride Center of Excellence	Metal Hydride CoE
STP 31	Ian Robertson	U of Illinois	Stetson	Bakke	Reversible Hydrogen Storage Materials – Structure, Chemistry and Electronic Structure	Metal Hydride CoE
STP 32	Bob Bowman	Jet Propulsion Laboratory	Read	NA	Development and Evaluation of Advanced Hydride Systems for Reversible Hydrogen Storage	Metal Hydride CoE
STP 33	Dan Mosher	UTRC	Read	Adams	High Density Hydrogen Storage System Demonstration Using NaAlH <sub>4</sub> Complex Compound Hydrides	Metal Hydrides-Independent Projects
STP 34	Leon Shaw	U of Connecticut	Stetson	Alkire	Effects and Mechanisms of Mechanical Activation on Hydrogen Sorption/Desorption of Nanoscale Lithium Nitrides	New Materials-Independent Projects
STP 35	Jeffrey Long	UC Berkeley/LBNL	Read	NA	A Synergistic Approach to the Development of New Hydrogen Storage Materials, Part I	New Materials-Independent Projects
STP 36	Michael Miller	SwRI	Stetson	Adams	National Testing Laboratory for Solid-State Hydrogen Storage Technologies	Storage Testing, Safety and Analysis
STP 37	Bruce Hardy	SRNL	Stetson	NA	Hydrogen Storage Materials and Systems Development	Metal Hydride CoE
STP 38	Terry Udovic	NIST	Read	NA	Neutron Characterization and Calphad in support of the Metal Hydride Center of Excellence	Metal Hydride CoE

**Wednesday Poster Session - 2007 Hydrogen Program Annual Review (Salons D&E, 6-8 PM)****Fuel Cells Sub-Program Posters, Wednesday, May 16**Schedule as of: **May 10, 2007**

<b>Number</b>	<b>Presenter</b>	<b>Organization</b>	<b>TDM</b>	<b>Proj. Off.</b>	<b>Title</b>	<b>Sub-Program Category</b>
FCP 10	Orest Andrianowycz	GrafTech	Marcinkoski	Tyler	Next Generation Bipolar Plates for Automotive PEM Fuel Cells	Bipolar Plates
FCP 11	Peter Tortorelli	ORNL	Marcinkoski	NA	Nitrided Metallic Bipolar Plates	Bipolar Plates
FCP 12	John Vogel	Plug Power Inc.	Epping	Tyler	International Stationary Fuel Cell Demonstration	Demonstration
FCP 13	Michael Parsons	Plug Power Inc.	Epping	Tyler	Intergovernmental Stationary Fuel Cell System Demonstration	Demonstration
FCP 14	Jason Parsons	UTC Fuel Cells	Marcinkoski	Peterson	Low Cost, Durable Seal	Hardware
FCP 15	Trent Molter	University of CT	Garbak	Peterson	The Effects of Impurities on Fuel Cell Performance and Durability	Impurities
FCP 16	James Goodwin	Clemson University	Garbak	Tyler	Effects of Impurities on Fuel Cell Performance and Durability	Impurities
FCP 17	Fernando Garzon	LANL	Garbak	NA	Effects of Fuel and Air Impurities on PEM Fuel Cell Performance	Impurities
FCP 18	Bin Du	Plug Power Inc.	Armstrong	Peterson	Adaptive Stack With Subdivided Cells for Improved Stability, Reliability, and Durability Under Automotive Load Cycle	Innovative Concepts
FCP 19	Jesse Wainright	Case Western R	Armstrong	Tyler	Light-weight, Low Cost PEM Fuel Cell Stacks	Innovative Concepts
FCP 20	Ward TeGrotenhuis	PNNL	Marcinkoski	NA	Low-Cost Manufacturable Microchannel Systems for Passive PEM Water Management	Innovative Concepts
FCP 21	James Cross	Nuvera Fuel Cells	Armstrong	Tyler	Subfreezing Start/Stop Protocol for an Advanced Metallic Open-Flowfield Fuel Cell Stack	Water Management
FCP 22	Satish Kandlikar	Rochester Institute of Technology	Armstrong	Peterson	Visualization of Fuel Cell Water Transport and Performance Characterization Under Freezing Conditions	Water Transport
FCP 23	Vernon Cole	CFD Research Corp	Armstrong	Tyler	Water Transport in PEM Fuel Cells: Advanced Modeling, Material Selection, Testing, and Design Optimization	Water Transport
FCP 24	Rod Borup	LANL	Armstrong	NA	Water Transport Exploratory Studies	Water Transport

**Thursday Poster Session - 2007 Hydrogen Program Annual Review (Salons I&II, 6-8 PM)****Basic Energy Sciences Posters, Thursday May 17****Schedule as of: May 10, 2007**

<u>Number</u>	<u>Presenter</u>	<u>Organization</u>	<u>Prog. Off.</u>	<u>Title</u>	<u>Sub-Program Category</u>
BESP 1	Mahdi Adu-Omar	Purdue University	Miranda	Silane Activation by Transition Metal Catalysts for Hydrogen Storage	Catalysis
BESP 2	Gilbert Brown	Oak Ridge National	Miranda	Nanoscale Building Blocks for Multi-Electron Electrocatalysis	Catalysis
BESP 3	Daniel Buttry	University of	Kelley	eNMR for In-Situ Fuel Cell Catalyst Characterization	Catalysis
BESP 4	Abhaya Datye	University of New Mexico	Miranda	Nanostructured Catalysts for Hydrogen Generation from Renewable Feedstocks	Catalysis
BESP 5	Frank DiSalvo	Cornell University	Kini	Novel Intermetallic Catalysts to Enhance PEM Membrane Durability	Catalysis
BESP 6	Jonah Erlebacher	Johns Hopkins University	Miranda	Nanoporous Metal Membranes with Monolayer-Thick Precious Metal Catalyst Skins	Catalysis
BESP 7	Cody Friesen	Arizona State University	Miranda	A Surface Stress Paradigm for Studying and Developing Catalyst and Storage Materials Relevant to the Hydrogen Economy	Catalysis
BESP 8	Andrew Gewirth	University of Illinois at Urbana Champaign	Kelley	Cathode Catalysis in Hydrogen/Oxygen Fuel Cells	Catalysis
BESP 9	Gregory Kubas	Los Alamos National Lab	Miranda	Hydrogen Storage Materials with Binding Intermediate Between Physisorption and Chemisorption	Catalysis
BESP 10	Lisa Pfefferle	Yale University	Miranda	Novel Reforming Catalysts	Catalysis
BESP 11	Yang Shao-horn	MIT	Maupin	Instability of Noble Metal Catalysts in Proton Exchange Membrane Fuel Cells: Experiments and Theory	Catalysis
BESP 12	Shane Street	The University of Alabama	Bennett	Nanostructured Catalysts for Fuel Cells	Catalysis
BESP 13	Michael Trenary	University of Illinois at Chicago	Maupin	Dehydrogenation of Boron Nanostructures	Catalysis
BESP 14	Gotz Vesper	University of Pittsburgh	Kelley	Multiscale Tailoring of Highly Active and Stable Nanocomposite Catalysts for the Production of Clean Hydrogen Streams	Catalysis
BESP 15	Dionisios Vlachos	University of Delaware	Miranda	An Integrated Approach Toward Rational Nanocatalyst Design For Hydrogen Production	Catalysis
BESP 16	Judith Yang	University of Pittsburgh	Chen	The Reactivity and Structural Dynamics of Supported Metal Nanoclusters Using Electron Microscopy, in situ X-Ray Spectroscopy, Electronic Structure Theories, and Molecular Dynamics Simulations	Catalysis
BESP 17	Brian Benicwicz	Rensselaer Polytechnic Institute	Kini	Sol-Gel Based Polybenzimidazole Membranes for Hydrogen Pumping Devices	Membranes
BESP 18	Stephen Creager	Clemson University	Millman	New Proton-Conducting Fluoropolymer Electrolytes for PEM Fuel Cells	Membranes
BESP 19	Benny Freeman	University of Texas at Austin	Millman	Hydrogen Purification Using Advanced Polymeric Membranes	Membranes
BESP 20	Michael Heben	NREL	Kelley	Carbon Nanotube Materials for Substrate Enhanced Control of Catalytic Activity	Membranes
BESP 21	G. Kane Jennings	Vanderbilt University	Fitzsimmons	Surface-Initiated Ionomer Films Based on Modified Poly(n-alkylnorbornene)s	Membranes
BESP 22	David Keffer	The University of Tennessee	Millman	A Unified Computational, Theoretical and Experimental Investigation of Proton Transport through the Electrode/Electrolyte Interface of Proton	Membranes

BESP 23	Bryan Pivovar	Los Alamos Nat. Lab.	Kini	Fundamentals of Hydroxide Conducting Systems for Fuel Cells and Electrolyzers	Membranes
BESP 24	David Sholl	Carnegie Mellon University	Millman	Ab Initio Screening of Ternary Alloys for Hydrogen Purification	Membranes
BESP 25	Helmut Strey	Stony Brook University	Kini	Electrostatically Self-assembled Amphiphiles	Membranes
BESP 26	Philip Taylor	Case Western Reserve University	Koelling	Theory, Modeling, and Simulation of Ion Transport in Ionomer Membranes	Membranes
BESP 27	Matthew Yates	University of Rochester	Millman	Preparation of Composite Fuel Cell Membranes Containing Electric Field Aligned Inorganic Particles	Membranes

**Fuel Cells Sub-Program Posters, Thursday May 17**
**Schedule as of: May 10, 2007**

<u>Number</u>	<u>Presenter</u>	<u>Organization</u>	<u>TDM</u>	<u>Proj. Off.</u>	<u>Title</u>	<u>Sub-Program Category</u>
FCP 25	Mark Debe	3M Company	Garland	Peterson	Advanced Cathode Catalysts and Supports for PEM Fuel Cells	Catalysts
FCP 26	Tom Jarvi	UTC Fuel Cells	Garland	Tyler	Highly Dispersed Alloy Cathode Catalyst for Durability	Catalysts
FCP 27	Piotr Zelenay	LANL	Garland	NA	Advanced Cathode Catalysts	Catalysts
FCP 28	Debbie Myers	ANL	Garland	NA	Non-Platinum Bimetallic Cathode Electrocatalysts	Catalysts
FCP 29	Yong Wang	PNNL	Garland	NA	Development of Alternative and Durable High Performance Cathode Supports for PEM Fuel Cells	Catalysts
FCP 30	Di-Jia Liu	ANL	Manheim	NA	Novel PEMFC Stack Using Patterned Aligned Carbon Nanotubes as Electrodes in MEA	Innovative Concepts
FCP 31	Scott Gaboury	Arkema	Manheim	Tyler	Improved, Low-Cost, Durable Fuel Cell Membranes	Membranes
FCP 32	Steven Hamrock	3M	Manheim	Peterson	Membranes and MEA's for Dry, Hot Operating Conditions	Membranes
FCP 33	John Kerr	LBNL	Manheim	NA	New Polyelectrolyte Materials for High Temperature Fuel Cells	Membranes

**Thursday Poster Session - 2007 Hydrogen Program Annual Review (Salons D&E, 6-8 PM)**
**Technology Validation Sub-Program Posters, Thursday May 17**
**Schedule as of: May 10, 2007**

<u>Number</u>	<u>Presenter</u>	<u>Organization</u>	<u>TDM</u>	<u>Proj. Off.</u>	<u>Title</u>	<u>Sub-Program Category</u>
TVP 2	Margo Melendez	NREL	Garbak	NA	Geographically Based Hydrogen Infrastructure Scenario Analysis	Analysis
TVP 3	Cory Welch	NREL	Garbak	NA	Quantifying Consumer Sensitivity to Hydrogen Refueling Station Coverage	Analysis
TVP 4	Stefan Unnasch	TIAX	Garbak	NA	Policy Options for Hydrogen Vehicles and Infrastructure	Analysis
TVP 7	Andy Lutz	SNL	Garbak	NA	Power Parks System Simulation	Power Parks Analysis
TVP 8	Robert Boehm	UNLV	Garbak	Hooker	Hydrogen Filling Station	Refueling Tech. Dev. & Demo.
TVP 11	Ed Levine	Florida Hydrogen	Garbak	Peterson	Florida Hydrogen Initiative	Technology Validation
TVP 12	Richard Rocheleau	Hawaii Natural	Garbak	Bakke	Hawaii Hydrogen Center for Development and Deployment of	Power Parks Analysis

**Safety, Codes & Standards Sub-Program Posters, Thursday, May 17**
**Schedule as of: May 10, 2007**

<u>Number</u>	<u>Presenter</u>	<u>Organization</u>	<u>TDM</u>	<u>Proj. Off.</u>	<u>Title</u>	<u>Sub-Program Category</u>
SAP 1	Gary Nakarado	Regulatory Logic	Ruiz	Elam	Codes & Standards for the Hydrogen Economy	Safety, Codes & Stans.
SAP 2	Bob Lieberman	Intelligent Optical Systems	Ruiz	Elam	Hydrogen Optical Fiber Sensors	Safety, Codes & Stans.
SAP 3	Susan Schoenung	Longitude 122 West	Ruiz	NA	IEA Hydrogen Task 18: Evaluation of Integrated Demonstration Systems	Safety, Codes & Stans.