2005 Hydrogen Program Annual Review Block Schedule

Monday, May 16, 2005

	Monday			<u>Tuesday</u>			Wednesday		<u>Thursday</u>		
Session A	Session B	Session C	Session A	Session B	Session C	Session A	Session B	Session C	Session A	Session B	Session C
(Salons	(Salons	(Salons I&II)	(Salons	(Salons	(Salons I&II)	(Salons	(Salons	(Salons I&II)	(Salons	(Salons	(Salons I&II)
V&VI)	B&C)		V&VI)	B&C)		V&VI)	B&C)		V&VI)	B&C)	
			P&D	ST	FC	P&D	ST	FC	ED	S,C&S	FC
			P&D	ST	FC	P&D	ST	FC	ED	S,C&S	FC
			P&D	ST	FC	P&D	ST	FC	AN	S,C&S	FC
			P&D	ST	FC	P&D	TV	FC	AN	S,C&S	FC
Ple	enary Sess	ion	Break	Break	Break	Break	Break	Break	Break	Break	Break
	-		P&D	ST	FC	P&D	TV	FC	AN	S,C&S	FC
			P&D	ST	FC	P&D	TV	FC	AN	S,C&S	FC
			P&D	ST	FC	P&D	TV	FC	AN	S,C&S	FC
			P&D	ST	FC	P&D	TV	FC	AN	S,C&S	FC
Lu	nch (12:30-1:	45)	Lu	nch (12:00-1:	15)	Lu	nch (12:00-1:	15)			
P&D	ST	FC	P&D	ST	FC	P&D	TV	FC			Fuel Cell
P&D	ST	FC	P&D	ST	FC	P&D	TV	FC			R&D
P&D	ST	FC	P&D	ST	FC	P&D	TV	FC			Workshop
P&D	ST	FC	P&D	ST	FC	P&D	TV	FC			
Break	Break	Break	Break	Break	Break	Break	Break	Break			
P&D	ST	FC	P&D	ST	FC	P&D	TV	FC			
P&D	ST	FC	P&D	ST	FC	P&D	TV	FC			
P&D	ST	FC	P&D	ST	FC	ED	ΤV	FC			
P&D	ST	FC	P&D	ST	FC	ED	TV	FC			
P&D	ST	FC	P&D	ST	FC	ED	TV	FC			

Storage Center of Excellence Posters Reception/Poster Session at the DAR (4:00 to 7:00 in Salon K) (6:00-8:30)

Note: Additional posters will be on display in the Hotel all during the Review

Key

Production and Delivery P&D

ST Storage FC

Fuel Cells ΤV

Technology Validation ED Education

S,C&S Safety, Codes and Standards

AN Analysis

Session A - 2005 Hydrogen Program Annual Review Oral Presentations (Salons V&VI)

Session A - 2005 Hydrogen Program Annual Review Oral Presentations (Salons V&VI) Schedule as of: Monday, May 16, 2005												
			Data	T	D	D		7014		••••••		
_			Date	Time		Presenter		<u>TDM</u>	<u>Title</u>	Sub-Program Category		
PD		1	Mon, May 23	1:45 PM	30	Pete	Devlin	Devlin	Hydrogen Production & Delivery	NA		
PD		36	Mon, May 23	2:15 PM	15	A. David	Henderson		Hydrogen Production Using Nuclear Energy	Prod. Using Nuclear		
PD		37	Mon, May 23	2:30 PM	10	Prof. Tom			Basic Research Needs for Hydrogen Production			
PD		2	Mon, May 23	2:40 PM	25	Greg	Тао	Kauffman	A Reversible Planar Solid Oxide Fuel-Fed Electrolysis	Distributed Production		
									Cell and Solid Oxide Fuel Cell for Hydrogen and			
		_							Electricity Production Operating on Natural Gas/Biogas			
PD)	3	Mon, May 23	3:05 PM	25	Ravi	Kumar	Anderson	Autothermal Cyclic Reforming Based Hydrogen	Distributed Production		
			-						Generating & Dispensing System			
			Break	3:30 PM	20							
PD		4	Mon, May 23	3:50 PM	25	David	Guro	Anderson	Development of a Turnkey Hydrogen Fueling Station	Distributed Production		
PD)	5	Mon, May 23	4:15 PM	25	Bill	Liss	Anderson	Development of a Natural Gas-to-Hydrogen Fueling	Distributed Production		
									System			
PD		6	Mon, May 23	4:40 PM	25	David	King	Paster	Production of Hydrogen by Biomass Reforming	Distributed Production		
PD)	7	Mon, May 23	5:05 PM	30	Randy	Cortright	Paster	Hydrogen Generation from Biomass-Derived	Distributed Production		
									Carbohydrates via the Aqueous-Phase Reforming (APR)			
									Process			
			Session Ends	5:35 PM								
PD		8	Tues, May 24	8:30 AM	25	Satish	Tamhankar	Anderson	Integrated Hydrogen Production, Purification &	Distributed Production		
									Compression System			
PD)	9	Tues, May 24	8:55 AM	25	Frank	Lomax, Jr.	Anderson	Low-Cost Hydrogen Distributed Production Systems	Distributed Production		
PD		10	Tues, May 24	9:20 AM	25	Ke	Liu	Anderson	Integrated Short Contact Time Hydrogen Generator	Distributed Production		
PD		11	Tues, May 24	9:45 AM	30	Anthony	Sammells	Schmetz/Win	Advanced Hydrogen Transport Membranes for Vision 21	DOE Fossil Energy		
									Fossil Fuel Plants			
			Break	10:15 AM	30							
PD	, .	12	Tues, May 24	10:45 AM	25	Brian	Bischoff	Schmetz/Win	Scale-up of Microporous Inorganic Hydrogen-Separations	DOE Fossil Energy		
									Membranes			
PD		13	Tues, May 24	11:10 AM	25	Francis	Lau	Paster	Low Cost Hydrogen Production from Biomass Using	Separations		
									Novel Membrane Gasification Reactor			
PD	, .	14	Tues, May 24	11:35 AM	25	Tom	Vanderspurt	Paster	A Novel Slurry-Based Biomass Reforming Process	Biomass Reforming		
			Lunch	12:00 PM	75							
PD	, .	15	Tues, May 24	1:15 PM	25	Tasios	Melis	R. Garland	Maximizing Photosynthetic Efficiencies and Hydrogen	Biological Production		
									Production in Microalgal Cultures			
PD		16	Tues, May 24	1:40 PM	25	Maria	Ghirardi	R. Garland	Biological Systems for Hydrogen Photoproduction	Biological Production		
PD	, .	17	Tues, May 24	2:05 PM	25	James	Lee	R. Garland	Creation of Designer Alga for Efficient and Robust	Biological Production		
									Production of H2			
PD	, .	18	Tues, May 24	2:30 PM	25	PinChing	Maness	R. Garland	Fermentative Approaches to Hydrogen Production	Biological Production		
			Break	2:55 PM	25	-				-		
PD	, .	19	Tues, May 24	3:20 PM	25	Dan	Blake	R. Garland	Hydrogen Reactor Development and Design for	Biological Production		
			-						Photofermentation and Photolytic Processes	-		
PD		20	Tues, May 24	3:45 PM	25	Eric	Miller	R. Garland	Photoelectrochemical Hydrogen Production: SHGR	Photoelectrochemical		
			· •						Program Subtask			
PD		21	Tues, May 24	4:10 PM	25	John	Turner	R. Garland	Photoelectrochemical Water Systems for H2 Production	Photoelectrochemical		
PD		22	Tues, May 24	4:35 PM	25	Eric	McFarland	R. Garland	Photoelectrochemical Hydrogen Production Using New	Photoelectrochemical		
									Combinatorial Chemistry Derived Materials			
			Session Ends	5:00 PM					•			

PD PD PD	23 24 25	Wed, May 25 Wed, May 25	8:30 AM 8:55 AM 9:20 AM	25 25 30	Cecelia Steve Ben	Cropley Herring Kroposki	Kauffman Henderson Kauffman	Low-Cost, High-Pressure Hydrogen Generator High Temperature Solid Oxide Electrolyzer System Renewable Electrolysis Integrated System Development and Testing	Electrolysis DOE Nuclear Energy Electrolysis
PD	26	Break Wed, May 25	9:50 AM 10:15 AM	25 25	Samir	Ibrahim	Kauffman	Alkaline, High Pressure Electrolysis	Electrolysis
PD	27		10:40 AM	25	Paul	Pickard	Henderson	Sulfur-Iodine Thermochemical Cycle	DOE Nuclear Energy
PD	28	, ,	11:05 AM	30	Bob	Perret	Paster	Development of Solar-powered Thermochemical Production of Hydrogen from Water	Hi-Temp Thermochemical
PD	29	Wed, May 25 Lunch	11:35 AM 12:00 PM	25 75	Michele	Lewis	Henderson	Alternative Thermochemical Cycle Evaluation	DOE Nuclear Energy
PD	30	Wed, May 25	1:15 PM	25	Tony	Hechanova	Henderson	High Temperature Heat Exchanger Development	DOE Nuclear Energy
PD	31	Wed, May 25	1:40 PM	25	Steve	Sherman	Henderson	NHI System Interface and Support Systems	DOE Nuclear Energy
PD	32	Wed, May 25	2:05 PM	25	Marianne	Mintz	Paster	H2A Delivery Analysis	Hydrogen Delivery
PD	33	, . , .	2:30 PM	20	Zhili	Feng	Paster	Hydrogen Permeability and Integrity of Hydrogen Delivery Pipelines	Hydrogen Delivery
		Break	2:50 PM	20					
PD	34	Wed, May 25	3:10 PM	20	Guido	Pez	Paster	Reversible Liquid Carriers for an Integrated Production, Storage & Delivery of Hydrogen	Hydrogen Delivery
PD	35	Wed, May 25	3:30 PM	30	Subodh K.	Das	Paster	Materials Solutions for Hydrogen Delivery in Pipelines	Hydrogen Delivery
ED	1	Wed, May 25	4:00 PM	25	Christy	Cooper		Hydrogen Education	NA
ED	2	Wed, May 25	4:25 PM	20	Ruth	Borger	Cooper	Hydrogen/Alternative Energy Center	Education
ED	3	Wed, May 25	4:45 PM	20	John	Griffin	Cooper	Shared Technology Transfer Project	Education
		Session Ends	5:05 PM						
ED	4	Thur, May 26	8:30 AM	20	Paul	Williamson	Cooper	Montana Hydrogen Futures Project	Education
ED	5	Thur, May 26	8:50 AM	25	Barbara	Nagle	Cooper	Hydrogen Technology and Energy Curriculum (HyTEC)	Education
ED	6	Thur, May 26	9:15 AM	25	Mary	Spruill	Cooper	H2 Educate!	Education
AN	1	Thur, May 26	9:40 AM	25	Fred	Joseck		Systems Analysis	NA
AN	2	Thur, May 26	10:05 AM	25	Maggie	Mann	Joseck	Moving Toward Consistent Analysis in the HFC&IT Program: H2A	Systems Analysis
		Break	10:30 AM	20					
AN	3	Thur, May 26	10:50 AM	25	David	Greene	Joseck	Hydrogen Transition Modeling and Analysis: HYTRANS v. 1.0	Systems Analysis
AN	4	Thur, May 26	11:15 AM	25	Walter	Short	Joseck	WinDS-H2 Model and Analysis	Systems Analysis
AN	5	Thur, May 26	11:40 AM	25	Joan	Ogden	Joseck	Technical and Economic Studies of Regional Transition Strategies toward Widespread Use of Hydrogen Energy	Systems Analysis
AN	6	Thur, May 26 Session Ends	12:05 PM 12:30 PM	25	Stephen	Lasher	Joseck	Fuel Choice for FCVs: Hydrogen Infrastructure Costs	Systems Analysis

Session B - 2005 Hydrogen Program Annual Review Oral Presentations (Salons B&C)

000	5310	п В - 2005 Пу	ulogen i i	ogra				Schedule as of	Monday, May 16, 2005
Nun	nber	Date	Time	Dur.	Presenter		трм	Title	Sub-Program Category
ST	1	Mon, May 23	1:45 PM	40	Sunita George	Satyapal Thomas	DOE/EERE DOE/BES	Hydrogen Storage	NA
ST	2	Mon, May 23	2:25 PM	90	Jim	Wang	Read	Development of Metal Hydrides at Sandia National Laboratories	Metal Hydrides
		Session Ends	3:55 PM						
ST	3	Tues, May 24	8:30 AM	25	Craig	Jensen	Read	Catalytically Enhanced Hydrogen Storage Systems	Metal Hydrides
ST	4	Tues, May 24	8:55 AM	25	Don	Anton	Read	High Density Hydrogen Storage System Demonstration Using NaAlH4 Complex Compound Hydrides	Metal Hydrides
ST	5	Tues, May 24	9:20 AM	25	Adriaan	Sachtler	Read	Discovery of Novel Complex Metal Hydrides for Hydrogen Storage through Molecular Modeling and Combinatorial Methods	Metal Hydrides
ST	6	Tues, May 24	9:45 AM	25	Susanne	Opalka	Read	Complex Hydride Compounds with Enhanced Hydrogen Storage Capacity	Metal Hydrides
		Break	10:10 AM	15					
ST	7	Tues, May 24	10:25 AM	25	Orhan	Talu	Read	Sub-Nanostructured Non-Transition Metal Complex Grids for Hydrogen Storage	New Matl's & Concepts
ST	8	Tues, May 24	10:50 AM	25	Samuel	Мао	Read	A Synergistic Approach to the Development of New Hydrogen Storage Materials	New Matl's & Concepts
ST	9	Tues, May 24	11:15 AM	25	Ralph	White	Read	Clean Energy Research at the University of South Carolina	New Matl's & Concepts
ST	10	Tues, May 24	11:40 AM	20	Lee	Stefanakos	Read	Fuel Cell and Hydrogen Research University of South Florida	New Matl's & Concepts
		Lunch	12:00 PM	75					
ST	11	Tues, May 24	1:15 PM	60	Bill	Tumas	Satyapal	Center of Excellence for Chemical Hydrogen Storage	Chemical Hydrides
ST	12	Tues, May 24	2:15 PM	25	Ying	Wu	Satyapal	Process for the Regeneration of Sodium Borate to Sodium Borohydride for Use as a Hydrogen Storage Source	Chemical Hydrides
ST	13	Tues, May 24	2:40 PM	25	Andy	McClaine	Satyapal	Chemical Hydride Slurry for Hydrogen Production and Storage	Chemical Hydrides
		Break	3:05 PM	20					
ST	14	Tues, May 24	3:25 PM	25	Alan	Cooper	Satyapal	Development of New Carbon-Based Sorbent Systems for an Effective Containment of Hydrogen	Chemical Hydrides
ST	15	Tues, May 24	3:50 PM	25	Jui	Ko	Satyapal	Low Cost, High Efficiency, High Pressure Hydrogen Storage	Compressed/Liquid Tanks
ST	16	Tues, May 24	4:15 PM	25	Salvador	Aceves	Satyapal	Advanced Concepts for Containment of Hydrogen and Hydrogen Storage Materials	Compressed/Liquid Tanks
ST	17	Tues, May 24	4:40 PM	25	Chuck	Ryan	Milliken	Advanced Manufacturing Technologies for Renewable Energy Applications	New Matl's & Concepts
		Session Ends	5:05 PM						

ST	18	Wed, May 25	8:00 AM	90	Mike	Heben	Satyapal	DOE Carbon-based Materials Center of Excellence: NREL Activities and Overview	Carbon Materials
ST	19	Wed, May 25	9:30 AM	25	Stephen	Lasher	Satyapal	Analyses of Hydrogen Storage Materials and On-Board Systems	Testing & Analysis
		Break	9:55 AM	20					
ST	20	Wed, May 25	10:15 AM	25	Rajesh	Ahluwalia	Satyapal	System Level Analysis of Hydrogen Storage Options	Testing & Analysis
ST	21	Wed, May 25	10:40 AM	25	Richard	Page	Satyapal	Standardized Testing Program for Chemical Hydride and Carbon Storage Technologies	Testing & Analysis
ΤV	1	Wed, May 25	11:05 AM	30	Sig	Gronich		Technology Validation Sub-Program	NA
ΤV	2	Wed, May 25	11:35 AM	25	Rob	Regan	Gronich	DTE Energy Hydrogen Technology Park	Power Parks Analysis
		Lunch	12:00 PM	75		-			
ΤV	3	Wed, May 25	1:15 PM	20	Richard	Rocheleau	Gronich	Hawaii Hydrogen Center for Development and Deployment of Distributed Energy Systems	Power Parks Analysis
TV	4	Wed, May 25	1:35 PM	20	Raymond	Hobbs	Gronich	Hydrogen Power Park - Business Opportunities Concept	Power Parks Analysis
T \/	F	Wed, May 25	1:55 PM	30	Crog	Keenan	Gronich	Project Validation of an Integrated System for a Hydrogen-	Dower Dorke Analysia
ΤV	5	wed, May 25	1.55 PW	30	Greg	Keenan	Gronich	Fueled Power Park	Power Parks Analysis
ΤV	6	Wed, May 25	2:25 PM	25	Todd	Carlson	Gronich		Refueling Tech. Dev. & Demo.
	Ŭ	110a, may 20	2.201 1	20	rouu	Cancon	Cromon	Hydrogen Vehicle Range Requirements	
ΤV	7	Wed, May 25	2:50 PM	25	Keith	Wipke	Gronich		Systems Analysis
		Break	3:15 PM	20					
ΤV	8	Wed, May 25	3:35 PM	20	Mark	Pedersen	Gronich	California Hydrogen Infrastructure Project	Vehicle Demonstrations
ΤV	9	Wed, May 25	3:55 PM	20	Klaus	BonHoff	Gronich	, , ,	Vehicle Demonstrations
								Demonstration and Validation Project	
ΤV	10	Wed, May 25	4:15 PM	20	Greg	Frenette	Gronich	Hydrogen Fuel Cell Vehicle & Infrastructure	Vehicle Demonstrations
					-			Demonstration Program Review	
ΤV	11	Wed, May 25	4:35 PM	20	Rajesh	Paulose	Gronich		Vehicle Demonstrations
								Demonstration and Validation Project	
ΤV	12	Wed, May 25	4:55 PM	20	Roz	Sell	Gronich	Hydrogen Vehicle and Infrastructure Demonstration and Validation	Vehicle Demonstrations
		Session Ends	5:15 PM						
SA	1	Thur, May 26	8:30 AM	30	Patrick	Davis	Davis		NA
SA	2	Thur, May 26	9:00 AM	30	Jim	Ohi	Davis	, .	Safety, Codes & Stans.
SA	3	Thur, May 26	9:30 AM	30	Jay	Keller	Davis	Research and Development for Hydrogen Safety, Codes and Standards	Safety, Codes & Stans.
		Break	10:00 AM	30					
SA	4	Thur, May 26	10:30 AM	30	Cathy	Padro	Davis	International Standards and Regulations	Safety, Codes & Stans.
SA	5	Thur, May 26	11:00 AM	30	Bruce	Kinzey	Davis	HAMMER Emergency Response Training for the Hydrogen Economy	Safety, Codes & Stans.
SA	6	Thur, May 26 Session Ends	11:30 AM 12:00 PM	30	Steven	Weiner	Davis		Safety, Codes & Stans.

Session C - 2005 Hydrogen Program Annual Review Oral Presentations (Salons I&II)

Ses	Session C - 2005 Hydrogen Program Annual Review Oral Presentations (Salons I&II)											
		Dette	-	-	D		-		Monday, May 16, 2005			
		Date	<u>Time</u>		Presenter		<u>TDM</u>	Title	Sub-Program Category			
FC	1	Mon, May 23	1:45 PM	20	Valri	Lightner		Fuel Cell R&D	NA			
FC	51	Mon, May 23	2:05 PM	10	Dr. Paul	Maupin		Fuel Cells Basic Research				
FC	2	Mon, May 23	2:15 PM	30	Emory	DeCastro		Integrated Manufacturing for Advanced MEAs	MEAs			
FC	3	Mon, May 23	2:45 PM	30	Mark	Debe	Manheim	Advanced MEAs for Enhanced Operating Conditions, Amenable to High Volume Manufacture	MEAs			
		Break	3:15 PM	15								
FC	4	Mon, May 23	3:30 PM	25	Lesia	Protsailo	Manheim	Development of High Temperature Membranes and Improved Cathode Catalysts for PEM Fuel Cells	MEAs			
FC	5	Mon, May 23	3:55 PM	25	Mahlon	Wilson	Garland	Electrocatalyst Supports and Electrode Structures	MEAs			
FC	6	Mon, May 23	4:20 PM	30	Tom	Zawodzinski	Garland	Development of New Polymer Electrolytes for Operation at High Temperature and Low Relative Humidity	Membranes & MEAs			
FC	7	Mon, May 23	4:50 PM	25	Debbie	Myers	Garland	High-Temperature Polymer Electrolyte Membranes	Membranes & MEAs			
FC	8	Mon, May 23	5:15 PM	25	Rhonda	Staudt	Epping	Development of Polybenzimidazole-based, High Temperature Membrane and Electrode Assemblies for Stationary and Automotive Applications	Membranes & MEAs			
		Session Ends	5:40 PM									
FC	9	Tues, May 24	8:30 AM	25	Gonzalo	Escobedo	Manheim	Enabling Commercial PEM Fuel Cells with Breakthrough Lifetime Improvements	Membranes & MEAs			
FC	10	Tues, May 24	8:55 AM	25	Phil	Ross	Garland	New Electrocatalysts for Fuel Cells	Catalysts			
FC	11	Tues, May 24	9:20 AM	25	Piotr	Zelenay	Garland	Non-Precious Metal Catalysts	Catalysts			
FC	12	Tues, May 24 Break	9:45 AM 10:10 AM	25 30	Mike	Hicks	Epping	MEA and Stack Durability for PEM Fuel Cells	Membranes & MEAs			
FC	13	Tues, May 24	10:40 AM	25	Stephen	Campbell	Но	Development of transition metal/ chalcogen based cathode catalysts for PEM fuel cells	Catalysts			
FC	14	Tues, May 24	11:05 AM	25	Radoslav	Atanasoski	Но	Novel Approach to Non-Precious Metal Catalysts	Catalysts			
FC	15	Tues, May 24	11:30 AM	25	Branko N.	Popov	Но	Novel Non-Precious Metals for PEMFC: Catalyst Selection through Molecular Modeling and Durability Studies	Catalysts			
		Lunch	12:00 PM	75				5 5 5				
FC	16	Tues, May 24	1:15 PM	20	Karen	Swider-Lyons	Garland	Low-Platinum Catalysts for Oxygen Reduction at PEMFC Cathodes	Catalysts			
FC	17	Tues, May 24	1:35 PM	25	Radoslav	Adzic	Garland	Low Pt Loading Fuel Cell Electrocatalysts	Catalysts			
FC	18	Tues, May 24	2:00 PM	25	Michel	Foure	Manheim	Development of a Low-Cost, Durable Membrane and MEA for Stationary and Mobile Fuel Cell Applications	Membranes & MEAs			
FC	19	Tues, May 24	2:25 PM	20	Paolina	Atanassova	Manheim	Development of High-Performance, Low-Pt Cathodes Containing New Catalysts and Layer Structures	Catalysts			
FC	20	Tues, May 24 Break	2:45 PM 3:05 PM	20 20	Stephen	Grot	Anderson	Platinum Recycling Technology Development	Platinum Recycling			
FC	21	Tues, May 24	3:25 PM	20	Larry	Shore	Anderson	Platinum Group Metal Recycling Technology Development	Platinum Recycling			
FC		Tues, May 24	3:45 PM	25	David	Haack	Но	Scale-Up of Carbon/Carbon Bipolar Plates	Bipolar Plates			
FC		Tues, May 24	4:10 PM	20	Karren	More	Garland	Cost-Effective Surface Modification for Metallic Bipolar Plates	Bipolar Plates			
FC	24	Tues, May 24	4:30 PM	20	Theodore	Krause	Garland	Water Gas Shift Catalysis	Fuel Processing			
FC	25	Tues, May 24	4:50 PM	20	Theodore	Krause	Garland	Catalysts for Autothermal Reforming	Fuel Processing			
. 0	20	Session Ends	5:10 PM	-0			Janana		. ser roocoong			

FC	26	Wed, May 25	8:30 AM	20	Viviane	Schwartz	Garland	Selective Catalytic Oxidation of Hydrogen Sulfide	Fuel Processing
FC	27	Wed, May 25	8:50 AM	25	Mark K.	Gee	Garbak	Cost and Performance Enhancements for a PEM Fuel Cell	Trans. Sys & BOP
								Turbocompressor	
FC	28	Wed, May 25	9:15 AM	25	Sterling	Bailey	Garbak	Development and Testing of a Toroidal Intersecting Vane	Trans. Sys & BOP
					_	_		Machine (TIVM) Air Management System	
FC	29	Wed, May 25	9:40 AM	25	Giullermo	Pont	Ho	Development of a Thermal and Water Management (TWM)	Trans. Sys & BOP
			10.05.444	4 -				System for PEM Fuel Cells	
50	00	Break	10:05 AM	15	D.	Kalala			
FC	30	Wed, May 25	10:20 AM	25	Brian	Knight	Ho	Development of Sensors for Automotive PEM-based Fuel Cells	Trans. Sys & BOP
FC	31	Wed, May 25	10:45 AM	25	Richard	Gehman	Ho	2005 DOE Hydrogen Program Sensor Development	Trans. Sys & BOP
FC	32	Wed, May 25	11:10 AM	25	Bob	Sievers	Ho	DMFC Prototype Demonstration for Consumer Electronics	Auxiliary/Portable Power
50	~~	M/- 1 M 05	44.05.414	05	D.			Applications	
FC	33	Wed, May 25	11:35 AM	25	Brian	Wells	Ho	DMFC Power Supply for All-Day True-Wireless Mobile	Auxiliary/Portable Power
		Lunch	12:00 PM	75				Computing	
FC	34	Wed, May 25	1:15 PM	25	Piotr	Zelenay	Garland	Direct Methanol Fuel Cells	Auxiliary/Portable Power
FC	35	Wed, May 25 Wed, May 25	1:40 PM	25	Rajesh	Ahluwalia	Garland	Fuel Cell Systems Analysis	Trans. Sys & BOP
FC	36	Wed, May 25 Wed, May 25	2:05 PM	25	J. David	Carter	Garland	Bipolar Plate-Supported Solid Oxide Fuel Cell "Tuffcell"	Auxiliary/Portable Power
FC	30 37	Wed, May 25 Wed, May 25	2:30 PM	25 25	J. David Fernando	Garzon	Garland	Effect of Fuel and Air Impurities on Fuel Cell Performance	Fuel Cell Characterization
10	57	Break	2:55 PM	25	remanuo	Gaizon	Gananu	Effect of the and All impunities of the Cell Feronnance	
FC	38	Wed, May 25	3:20 PM	25	Muhamma	Δrif	Garland	Neutron Imaging Study of the Water Transport Mechanism in a	Fuel Cell Characterization
10	50	wed, May 25	5.20 T M	25	Munamma		Gananu	Working Fuel Cell	
FC	39	Wed, May 25	3:45 PM	25	Karren	More	Garland	Microstructural Characterization Of PEM Fuel Cell MEAs	Fuel Cell Characterization
FC	40	Wed, May 25	4:10 PM	25	Rodney	Borup	Garland	PEM Fuel Cell Durability	Fuel Cell Characterization
FC	41	Wed, May 25	4:35 PM	25	Yu Seung	Kim	Garland	Sub-Freezing Fuel Cell Effects	Cold Operation
FC	50	Wed, May 25	5:00 PM	25	John	Newman	Garland	Investigating Failure in Polymer-Electrolyte Fuel Cells	Fuel Cell Characterization
	00	Session Ends	5:25 PM		••••		Canana		
FC	42	Thur, May 26	8:30 AM	25	Tim	McIntyre	Garland	Fiber Optic Temperature Sensors for PEM Fuel Cells	Trans. Sys & BOP
FC	43	Thur, May 26	8:55 AM	25	Erik	Simpkins	Garbak	Research and Development for Off-road Fuel Cell Applications	Auxiliary/Portable Power
FC	44	Thur, May 26	9:20 AM	25	Jim	Stevens	Epping	50 kW Absorption Enhanced Natural Gas Reformer	Fuel Processing
FC	45	Thur, May 26	9:45 AM	25	Tom	Holmes	Epping	Cost-effective High-efficiency Advanced Reforming Module	Fuel Processing
		Break	10:10 AM	15					-
FC	46	Thur, May 26	10:25 AM	25	Tom	Clark	Epping	150 kW PEM Fuel Cell Power Plant Verification	Stationary Power Systems
FC	47	Thur, May 26	10:50 AM	25	John	Vogel	Epping	Back-up/Peak-Shaving Fuel Cells	Stationary Power Systems
FC	48	Thur, May 26	11:15 AM	20	Harry J.	Stone	Epping	Economic Analysis of Stationary PEM Fuel Cell Systems	Stationary Power Systems
FC	49	Thur, May 26	11:35 AM	25	Kyle	Taylor	Epping	Advanced Buildings PEM Fuel Cell System	Stationary Power Systems
		Session Ends	12:00 PM						

Production and Delivery Oral Presentations - Session A (Salons V&VI)

Schedule as of: Monday, May 16, 2005

<u>Numt</u> PD	<u>er</u> 1	<u>Date</u> Mon, May 23	<u>Time</u> 1:45 PM	<u>Presenter</u> Pete Devlin	<u>Organization</u> DOE	DOE TDM	<u>Title</u> Hydrogen Production & Delivery	Sub-Program Category
PD		Mon, May 23	2:15 PM	A. David Henderson	DOE		Hydrogen Production Using Nuclear Energy	
PD		Mon, May 23	2:30 PM	Prof. Tom Mallock	Penn State Univ.		Basic Research Needs for Hydrogen Production	
PD	2	Mon, May 23	2:40 PM	Greg Tao	MSRI	Kauffman	A Reversible Planar Solid Oxide Fuel-Fed Electrolysis Cell and Solid Oxide Fuel Cell for Hydrogen and Electricity Production Operating on Natural Gas/Biogas	Distributed Production
PD	3	Mon, May 23	3:05 PM	Ravi Kumar	GE Energy	Anderson	Autothermal Cyclic Reforming Based Hydrogen Generating & Dispensing System	Distributed Production
PD	4	Break Mon, May 23		L David Guro	Air Products	Anderson	Development of a Turnkey Hydrogen Fueling Station	Distributed Production
PD		Mon, May 23		Bill Liss	GTI	Anderson	Development of a Turrikey Hydrogen Fueling Station	Distributed Production
10	5	Mon, May 23	4.15110		011	Anderson	Development of a Natural Gas-to-Hydrogen Fueling System	Distributed Froduction
PD	6	Mon, May 23	4:40 PM	David King	PNNL	Paster	Production of Hydrogen by Biomass Reforming	Distributed Production
PD		Mon, May 23		Randy Cortright	Virent Energy Sys.	Paster	Hydrogen Generation from Biomass-Derived Carbohydrates via the Aqueous-Phase Reforming (APR) Process	
		Session Ends	5:35 PM	Ι			······································	
PD	8	Tues, May 24	8:30 AM	Satish Tamhankar	BOC Group, Inc.	Anderson	Integrated Hydrogen Production, Purification & Compression System	Distributed Production
PD	9	Tues, May 24	8:55 AM	Frank Lomax, Jr.	H2Gen Inno. Inc.	Anderson	Low-Cost Hydrogen Distributed Production Systems	Distributed Production
PD	10	Tues, May 24	9:20 AM	Ke Liu	GE Global Res.	Anderson	Integrated Short Contact Time Hydrogen Generator	Distributed Production
PD	11	Tues, May 24	9:45 AM	Anthony Sammells	Eltron Res. Inc.	Schmetz/Wi	Advanced Hydrogen Transport Membranes for Vision 21 Fossil Fuel Plants	DOE Fossil Energy
		Break	10:15 AM					
PD	12	Tues, May 24	10:45 AM	Brian Bischoff	ORNL	Schmetz/Wi	Scale-up of Microporous Inorganic Hydrogen-Separations Membranes	DOE Fossil Energy
PD	13	Tues, May 24	11:10 AM	Francis Lau	GTI	Paster	Low Cost Hydrogen Production from Biomass Using Novel Membrane Gasification Reactor	Separations
PD	14	Tues, May 24 Lunch	11:35 AM 12:00 PM	Tom Vanderspurt	United Tech. Res.Ctr.	Paster	A Novel Slurry-Based Biomass Reforming Process	Biomass Reforming
PD	15	Tues, May 24		Tasios Melis	UC Berkeley	R. Garland	Maximizing Photosynthetic Efficiencies and Hydrogen Production in Microalgal Cultures	Biological Production
PD	16	Tues, May 24	1:40 PM	Maria Ghirardi	NREL	R. Garland	Biological Systems for Hydrogen Photoproduction	Biological Production
PD	17	Tues, May 24	2:05 PM	James Lee	ORNL	R. Garland	Creation of Designer Alga for Efficient and Robust Production of H2	Biological Production
PD	18	Tues, May 24 Break	2:30 PM 2:55 PM	PinChing Maness	NREL	R. Garland	Fermentative Approaches to Hydrogen Production	Biological Production
PD	19	Tues, May 24	3:20 PM	Dan Blake	NREL	R. Garland	Hydrogen Reactor Development and Design for Photofermentation and Photolytic Processes	Biological Production
PD	20	Tues, May 24	3:45 PM	Eric Miller	U of Hawaii	R. Garland	Photoelectrochemical Hydrogen Production: SHGR Program Subtask	Photoelectrochemical
PD	21	Tues, May 24	4:10 PM	John Turner	NREL	R. Garland	Photoelectrochemical Water Systems for H2 Production	Photoelectrochemical
PD		Tues, May 24		Eric McFarland	U of Cal. Santa Barbara		Photoelectrochemical Hydrogen Production Using New Combinatorial Chemistry Derived Materials	Photoelectrochemical
		Session Ends	5:00 PM	T			,	

Session Ends 5:00 PM

PD PD PD	24	Wed, May 25 Wed, May 25 Wed, May 25	8:30 AM 8:55 AM 9:20 AM	Cecelia Cropley Steve Herring Ben Kroposki	Giner Electrochemical INEEL NREL	Kauffman Henderson Kauffman	Low-Cost, High-Pressure Hydrogen Generator High Temperature Solid Oxide Electrolyzer System Renewable Electrolysis Integrated System Development and Testing	Electrolysis DOE Nuclear Energy Electrolysis
		Break	9:50 AM					
PD	26	Wed, May 25	10:15 AM	Samir Ibrahim	Teledyne	Kauffman	Alkaline, High Pressure Electrolysis	Electrolysis
PD	27	Wed, May 25	10:40 AM	Paul Pickard	INL/SNL	Henderson	Sulfur-Iodine Thermochemical Cycle	DOE Nuclear Energy
PD	28	Wed, May 25	11:05 AM	Bob Perret	Univ. of Nevada	Paster	Development of Solar-powered Thermochemical Production	Hi-Temp Thermochemical
PD	29	Wed, May 25	11:35 AM	Michele Lewis	ANL	Henderson	Alternative Thermochemical Cycle Evaluation	DOE Nuclear Energy
		Lunch	12:00 PM					
PD	30	Wed, May 25	1:15 PM	Tony Hechanova	UNLV	Henderson	High Temperature Heat Exchanger Development	DOE Nuclear Energy
PD	31	Wed, May 25	1:40 PM	Steve Sherman	INL	Henderson	NHI System Interface and Support Systems	DOE Nuclear Energy
PD	32	Wed, May 25	2:05 PM	Marianne Mintz	ANL	Paster	H2A Delivery Analysis	Hydrogen Delivery
PD	33	Wed, May 25	2:30 PM	Zhili Feng	ORNL	Paster	Hydrogen Permeability and Integrity of Hydrogen Delivery Pipelines	Hydrogen Delivery
		Break	2:50 PM	1			•	
PD	34	Wed, May 25	3:10 PM	Guido Pez	Air Products	Paster	Reversible Liquid Carriers for an Integrated Production, Storage & Delivery of Hydrogen	Hydrogen Delivery
PD	35	Wed, May 25	3:30 PM	Subodh K. Das	Secat, Inc.	Paster	Materials Solutions for Hydrogen Delivery in Pipelines	Hydrogen Delivery

Production and Delivery Poster Presentations

Monday Afternoon (Outside Salons	s IV, V, and VI)			Schedule as of:	Monday, May 16, 2005
Number Date Time	Presenter	Organization	DOE TDM	Title	Sub-Program Category
PDP 29 Mon, May 23 1:45-5:00	Tasios Melis	UC Berkeley	R. Garland	Maximizing Light Utilization Efficiency & Hydrogen Production in Microalgal Cultures	Biological Production
PDP 30 Mon, May 23 1:45-5:00	Juergen Polle	Adv. Bionutrition Corp	R. Garland	Novel Two-Stage Process for Photobiological Hydrogen Production	Biological Production
PDP 31 Mon, May 23 1:45-5:00	Hamilton Smith	J. Craig Venter Inst.	R. Garland	Hydrogen from Water in a Novel Recombinant Oxygen- Tolerant Cyanobacteria System	Biological Production
PDP 33 Mon, May 23 1:45-5:00	Brent MacQueen	SRI International	R. Garland	Discovery of Photocatalysts for Hydrogen Production	Photoelectrochemical
PDP 34 Mon, May 23 1:45-5:00	Thomas McNulty	GE Global Research		Solar Water Splitting: Photocatalyst Materials Discovery & Systems Development	Photoelectrochemical
PDP 35 Mon, May 23 1:45-5:00	Liwei Xu	Midwest Optoelectronics	R. Garland	Critical Research for Cost-Effective Photoelectrochemical Production of Hydrogen	Photoelectrochemical
PDP 36 Mon, May 23 1:45-5:00	John Peters	Montana State U.	R. Garland	Bioinspired Composite Nanomaterials for Photocatalytic Hydrogen Production	Photoelectrochemical
PDP 37 Mon, May 23 1:45-5:00	Arun Madan	MVSystems, Inc.	R. Garland	Photoelectrochemical Hydrogen Production	Photoelectrochemical
PDP 38 Mon, May 23 1:45-5:00	Neal Woodbury	Arizona State U.	Kauffman	Development of Water Splitting Catalysts Using a Novel Molecular Evolution Approach	Photoelectrochemical
PDP 39 Mon, May 23 1:45-5:00	Donald Pile	SNL	Kauffman	Hydrogen Production - Increasing the Efficiency of Water Electrolysis	Electrolysis
PDP 41 Mon, May 23 1:45-5:00	Stephen Porter	Proton Energy Systems	Kauffman	Hydrogen Generation from Electrolysis	Electrolysis
PDP 42 Mon, May 23 1:45-5:00	James Ruud	GE Global Research	Kauffman	System Design and New Materials for Reversible Solid- Oxide, High-Temperature Steam Electrolysis	Electrolysis
PDP 43 Mon, May 23 1:45-5:00	Iouri Balachov	SRI International	Kauffman	Modular System for Hydrogen Generation & Oxygen Recovery	Electrolysis
PDP 44 Mon, May 23 1:45-5:00	Alan Weimer	U of Colorado	Kauffman	Fundamentals of a Solar-thermal Mn2O3/MnO Thermochemical Cycle to Split Water	Hi-Temp Thermochemical
PDP 45 Mon, May 23 1:45-5:00	Bill Summers	SRS	Henderson	Hybrid Sulfur Thermochemical Process Development	DOE Nuclear Energy
PDP 58 Mon, May 23 1:45-5:00	Xunming Deng	U of Toledo	R. Garland	Production of Hydrogen for Clean and Renewable Sources of Energy for Fuel Cell Vehicles	Photoelectrochemical
Tuesday Afternoon (Outside Salon	s IV, V, and VI)			Schedule as of:	Monday, May 16, 2005
Number Date Time	Presenter	<u>Organization</u>	<u>DOE TDM</u>	Title	Sub-Program Category
PDP 1 Tues, May 24 1:30-5:00	Liang Shih Fan	Ohio State Un.	Schmetz/Wi	r Enhanced Hydrogen Production Integrated with CO2 Separation in a Single-Stage Reactor	DOE Fossil Energy
PDP 3 Tues, May 24 1:30-5:00	Joseph Schwartz	Praxair	Anderson	Integrated Ceramic Membrane System for Hydrogen Production	Distributed Production
PDP 4 Tues, May 24 1:30-5:00	Tim Aaron	Praxair	Anderson	Low Cost Hydrogen Production Platform	Distributed Production
PDP 5 Tues, May 24 1:30-5:00	Norm Bessette	Nisource Energy Tech.	Anderson	Solid Oxide Fuel Cell Carbon Sequestration	Production
PDP 7 Tues, May 24 1:30-5:00	Shabbir Ahmed	ANL	Anderson	High Pressure Distributed Ethanol Reforming	Distributed Production
PDP 8 Tues, May 24 1:30-5:00	Paul Anders Erickson	U Cal., Davis	Schmetz/Wi	I Hydrogen Production for Fuel Cells via Reformation of Coal- Derived Methanol	
PDP 9 Tues, May 24 1:30-5:00	Paul KT Liu	Media & Process Tech.	Schmetz/Wi	r Hydrogen Production via a Commercially Ready Inorganic Membrane Reactor	DOE Fossil Energy
PDP 10 Tues, May 24 1:30-5:00	Richard Bourgeois	GE Global Research	Anderson	New York State Hi-Way Initiative	Electrolysis
PDP 11 Tues, May 24 1:30-5:00	Jerry Y.S. Lin	U. of Cincinatti	Anderson	Zeolite Membrane Reactor for Water-Gas-Shift Reaction for Hydrogen Production	Separations
PDP 12 Tues, May 24 1:30-5:00	Joseph Hartvigsen	Ceramatec Inc.	Kauffman	Large Area Cell for Hybrid Solid Oxide Fuel Cell Hydrogen	Electrolysis

Co-Generation Process

Brazilian Roadmap for a Hydrogen Economy

Tues, May 24 1:45-5:00 Symone Christine Brazilian Ministry of Santana de Araujo Mines and Energy

International Activities

	day Morning (O Date	utside Salo Time	ns IV, V, and VI) Presenter	Organization	DOE TDM	Title Schedule as of:	Monday, May 16, 200 Sub-Program Categor
	Wed, May 25			Startech Environmental	Paster	Startech Hydrogen Production	Biomass Reforming
	6 Wed, May 25		,	Gas Equip. Engr. Corp.	Paster	Combined Reverse-Brayton Joule-Thompson Hydrogen	Hydrogen Delivery
	-					Liquefaction Cycle	
DP 47	7 Wed, May 25	9:00-12:00	Robert Thompson	New Concepts Res. Cor	p Paster	Active Magnetic Regenerative Liquefier (AMRL) Development	Hydrogen Delivery
DP 48	3 Wed, May 25	9:00-12:00	Petros Sofronis	U. of Illinois	Paster	Hydrogen Embrittlement of Pipeline Steels: Causes & Remediation	Hydrogen Delivery
DP 49	Wed, May 25	9:00-12:00	Eileen Schmura	Concurrent Tech. Corp	Paster	Hydrogen Regional Infrastructure Program in Pennsylvania	Hydrogen Delivery
)P 50	Wed, May 25	9:00-12:00	Tan-Ping Chen	Nexant Inc.	Paster	Hydrogen Delivery Infrastructure Options Analysis	Hydrogen Delivery
	Wed, May 25			ORNL	Paster	New Materials for Hydrogen Pipelines	Hydrogen Delivery
	2 Wed, May 25			SRNL	Paster	Evaluation of Natural Gas Pipeline Materials and Infrastructure for Hydrogen/Hythane Service	Hydrogen Delivery
)P 53	3 Wed. May 25	9:00-12:00	David Livengood	ANL	Paster	Novel Hydrogen Screw Compressor	Hydrogen Delivery
			Salvador Aceves	LLNL	Paster	Inexpensive Delivery of Compressed Hydrogen with Advanced Vessel Technology	Hydrogen Delivery
DP 55	5 Wed, May 25	9:00-12:00	Bob Evans	NREL	Paster	Distributed Bio-Oil Reforming	Distributed Production
	Wed, May 25			Edison Materials Tech Center	R. Garland		Cross-Cutting
ednes	day Afternoon (Outside Sal	ons IV, V, and VI)			Schedule as of:	Monday, May 16, 20
Imber	Date	Time	Presenter	Organization	DOE TDM	Title	Sub-Program Catego
DP 14	Wed, May 25	1:30-5:00	Balu Balachandran	ANL	Schmetz/Wi	in Development of Dense Ceramic Membranes for Hydrogen Separation	DOE Fossil Energy
DP 15	5 Wed, May 25	1:30-5:00	Christopher Chen	Air Products	Anderson	Ceramic Membrane Reactor Systems for Converting Natural Gas to Hydrogen and Synthesis Gas (ITM Syngas)	Distributed Production
DP 16	8 Wed, May 25	1:30-5:00	Bruce Lanning	SwRI	Schmetz/Wi	ir Cost-Effective Method for Producing Self-Supporting Pd Alloy Membrane for Use in the Efficient Production of Coal- derived Hydrogen	DOE Fossil Energy
DP 17	7 Wed, May 25	1:30-5:00	Tina Nenoff	SNL	Anderson	Defect-Free Thin Film Membranes for H2 Separation and Isolation	Separations
DP 18	Wed, May 25	1:30-5:00	Brian Bischoff	ORNL	Anderson	Inorganic Membrane Porous Support Tube Fabrication	Separations
DP 19	Wed, May 25	1:30-5:00	Brian Bischoff	ORNL	Henderson	Membrane Applications for Nuclear Hydrogen Production Processes	DOE Nuclear Energy
DP 20	Wed, May 25	1:30-5:00	Dane Wilson	ORNL	Henderson	Materials for High-Temperature Thermochemical Processes	DOE Nuclear Energy
	Wed, May 25		Andrew Payzant	ORNL	Anderson	Ion Transport Membranes for Hydrogen Separation	Separations
	2 Wed, May 25		Paul KT Liu	Media & Process Tech.	Anderson	Water-Gas-Shift Reaction via a Single-Stage Low Temperature Membrane Reactor	Separations
DP 24	Wed, May 25	1:30-5:00	Francis Lau	GTI	Schmetz/Wi	ir A Novel Membrane Reactor for Hydrogen Production from Coal	DOE Fossil Energy
DP 25	5 Wed, May 25	1:30-5:00	Richard Killmeyer	NETL	Schmetz/Wi	ir Hydrogen Separation	DOE Fossil Energy
	6 Wed, May 25		Scott Hopkins	Pall Corp.	Anderson	High-Performance, Durable, Palladium-Alloy Membrane for	Separations
DP 26							
	3 Wed, May 25	1.20 5.00	Tom Maloney	Northern Power Sys.	Kauffman	Hydrogen Separation & Purification EVermont Renewable Hydrogen Fueling System	Electrolysis

Fuel Cell Oral Presentations - Session C (Salons I and II)

<u>Numb</u> FC	<u>er</u> 1	<u>Date</u> Mon, May 23	<u>Time</u> 1:45 PM	<u>Presenter</u> Valri Lightner	Organization DOE	DOE TDM	<u>Title</u> Fuel Cell R&D	<u>Sub-Program Category</u> NA
FC	51	Mon, May 23	2:05 PM	Dr. Paul Maupin	DOE/BES		Fuel Cells Basic Research	
FC		Mon, May 23	2:15 PM	Emory DeCastro	De Nora	Manheim	Integrated Manufacturing for Advanced MEAs	MEAs
FC	3	Mon, May 23	2:45 PM	Mark Debe	3M	Manheim	Advanced MEAs for Enhanced Operating Conditions, Amenable to High Volume Manufacture	MEAs
50		Break	3:15 PM					
FC	4	Mon, May 23	3:30 PM	Lesia Protsailo	UTC	Manheim	Development of High Temperature Membranes and Improved Cathode Catalysts for PEM Fuel Cells	MEAs
FC	5	Mon, May 23	3:55 PM	Mahlon Wilson	LANL	Garland	Electrocatalyst Supports and Electrode Structures	MEAs
FC	6	Mon, May 23	4:20 PM	Tom Zawodzinski	Case West. Res. Un.	Garland	Development of New Polymer Electrolytes for Operation at High Temperature and Low Relative Humidity	Membranes & MEAs
FC	7	Mon, May 23	4:50 PM	Debbie Myers	ANL	Garland	High-Temperature Polymer Electrolyte Membranes	Membranes & MEAs
FC	8	Mon, May 23	5:15 PM	Rhonda Staudt	Plug Power	Epping	Development of Polybenzimidazole-based, High Temperature Membrane and Electrode Assemblies for Stationary and Automotive Applications	Membranes & MEAs
		Session Ends	5:40 PM	1			Stationary and Automotive Applications	
		Occasion Ends	0.401 1	1				
FC	9	Tues, May 24	8:30 AM	Gonzalo Escobedo	Dupont	Manheim	Enabling Commercial PEM Fuel Cells with Breakthrough Lifetime Improvements	Membranes & MEAs
FC	10	Tues, May 24	8:55 AM	Phil Ross	LBNL	Garland	New Electrocatalysts for Fuel Cells	Catalysts
FC	11	Tues, May 24	9:20 AM	Piotr Zelenay	LANL	Garland	Non-Precious Metal Catalysts	Catalysts
FC	12	Tues, May 24	9:45 AM	Mike Hicks	3M	Epping	MEA and Stack Durability for PEM Fuel Cells	Membranes & MEAs
		Break	10:10 AM					
FC	13	Tues, May 24	10:40 AM	Stephen Campbell	Ballard	Ho	Development of transition metal/ chalcogen based cathode catalysts for PEM fuel cells	Catalysts
FC	14	Tues, May 24	11:05 AM	Radoslav Atanasoski	3M	Ho	Novel Approach to Non-Precious Metal Catalysts	Catalysts
FC	15	Tues, May 24		Branko N. Popov	U of So. Carolina	Но	Novel Non-Precious Metals for PEMFC: Catalyst Selection through Molecular Modeling and Durability Studies	Catalysts
		Lunch	12:00 PM					
FC	16	Tues, May 24	1:15 PM	Karen Swider-Lyons	NRL	Garland	Low-Platinum Catalysts for Oxygen Reduction at PEMFC Cathodes	Catalysts
FC		Tues, May 24	1:35 PM	Radoslav Adzic	Brookhaven Nat. Lab.	Garland	Low Pt Loading Fuel Cell Electrocatalysts	Catalysts
FC	18	Tues, May 24	2:00 PM	Michel Foure	Arkema Chemicals	Manheim	Development of a Low-Cost, Durable Membrane and MEA for Stationary and Mobile Fuel Cell Applications	Membranes & MEAs
FC	19	Tues, May 24	2:25 PM	Paolina Atanassova	Superior MicroPowders	Manheim	Development of High-Performance, Low-Pt Cathodes Containing New Catalysts and Layer Structures	Catalysts
FC	20	Tues, May 24 Break	2:45 PM 3:05 PM	Stephen Grot	Ion Power, Inc.	Anderson	Platinum Recycling Technology Development	Platinum Recycling
FC	21	Tues, May 24	3:25 PM	Larry Shore	Engelhard	Anderson	Platinum Group Metal Recycling Technology Development	Platinum Recycling
FC	22	Tues, May 24	3:45 PM	David Haack	Porvair Corp.	Ho	Scale-Up of Carbon/Carbon Bipolar Plates	Bipolar Plates
FC	23	Tues, May 24	4:10 PM	Karren More	ORNL	Garland	Cost-Effective Surface Modification for Metallic Bipolar Plates	Bipolar Plates
FC	24	Tues, May 24	4:30 PM	Theodore Krause	ANL	Garland	Water Gas Shift Catalysis	Fuel Processing
FC	25	Tues, May 24	4:50 PM	Theodore Krause	ANL	Garland	Catalysts for Autothermal Reforming	Fuel Processing
		Session Ends	5:10 PM]				

FC		Wed, May 25	8:30 AM	Viviane Schwartz	ORNL	Garland	Selective Catalytic Oxidation of Hydrogen Sulfide	Fuel Processing
FC	27	Wed, May 25	8:50 AM	Mark K. Gee	Honeywell	Garbak	Cost and Performance Enhancements for a PEM Fuel	Trans. Sys & BOP
							Cell Turbocompressor	
FC	28	Wed, May 25	9:15 AM	Sterling Bailey	Mechanology, LLC	Garbak	Development and Testing of a Toroidal Intersecting	Trans. Sys & BOP
							Vane Machine (TIVM) Air Management System	
FC	29	Wed, May 25	9:40 AM	Giullermo Pont	Honeywell	Но	Development of a Thermal and Water Management	Trans. Sys & BOP
							(TWM) System for PEM Fuel Cells	
		Break	10:05 AM					
FC	30	Wed, May 25	10:20 AM	Brian Knight	UTCFC	Но	Development of Sensors for Automotive PEM-based	Trans. Sys & BOP
		-		-			Fuel Cells	
FC	31	Wed, May 25	10:45 AM	Richard Gehman	Honeywell	Но	2005 DOE Hydrogen Program Sensor Development	Trans. Sys & BOP
FC	32	Wed, May 25	11:10 AM	Bob Sievers	MTI MicroFuel Cells	Но	DMFC Prototype Demonstration for Consumer	Auxiliary/Portable Power
FC	33	Wed, May 25	11:35 AM	Brian Wells	Polyfuel, Inc.	Но	DMFC Power Supply for All-Day True-Wireless Mobile	Auxiliary/Portable Power
							Computing	
		Lunch	12:00 PM					
FC	34	Wed, May 25	1:15 PM	Piotr Zelenay	LANL	Garland	Direct Methanol Fuel Cells	Auxiliary/Portable Power
FC	35	Wed, May 25	1:40 PM	Rajesh Ahluwalia	ANL	Garland	Fuel Cell Systems Analysis	Trans. Sys & BOP
FC	36	Wed, May 25	2:05 PM	J. David Carter	ANL	Garland	Bipolar Plate-Supported Solid Oxide Fuel Cell "Tuffcell"	Auxiliary/Portable Power
FC	37	Wed, May 25	2:30 PM	Fernando Garzon	LANL	Garland	Effect of Fuel and Air Impurities on Fuel Cell	Fuel Cell Characterization
				_			Performance	
		Break	2:55 PM					
FC	38	Wed, May 25	3:20 PM	Muhammad Arif	NIST	Garland	Neutron Imaging Study of the Water Transport	Fuel Cell Characterization
							Mechanism in a Working Fuel Cell	
FC	39	Wed, May 25	3:45 PM	Karren More	ORNL	Garland	Microstructural Characterization Of PEM Fuel Cell	Fuel Cell Characterization
							MEAs	
FC	40	Wed, May 25	4:10 PM	Rodney Borup	LANL	Garland	PEM Fuel Cell Durability	Fuel Cell Characterization
FC	41	Wed, May 25	4:35 PM	Yu Seung Kim	LANL	Garland	Sub-Freezing Fuel Cell Effects	Cold Operation
FC	50	Wed, May 25	5:00 PM	John Newman	LBNL	Garland	Investigating Failure in Polymer-Electrolyte Fuel Cells	Fuel Cell Characterization
		Session Ends	5:25 PM					
FC	42	Thur, May 26	8:30 AM	Tim McIntyre	ORNL	Garland	Fiber Optic Temperature Sensors for PEM Fuel Cells	Trans. Sys & BOP
FC	43	Thur, May 26	8:55 AM	Erik Simpkins	Idatech	Garbak	Research and Development for Off-road Fuel Cell	Auxiliary/Portable Power
							Applications	
FC	44	Thur, May 26	9:20 AM	Jim Stevens	ChevronTexaco	Epping	50 kW Absorption Enhanced Natural Gas Reformer	Fuel Processing
FC	45	Thur, May 26	9:45 AM	Tom Holmes	Nuvera	Epping	Cost-effective High-efficiency Advanced Reforming	Fuel Processing
			10:10 AM					
FC				Tom Clark	UTC	Epping	150 kW PEM Fuel Cell Power Plant Verification	Stationary Power Systems
FC		· ·		John Vogel	Plug Power	Epping	Back-up/Peak-Shaving Fuel Cells	Stationary Power Systems
FC	48	· ·		Harry J. Stone	Battelle	Epping	Economic Analysis of Stationary PEM Fuel Cell	Stationary Power Systems
FC				Kyle Taylor	IdaTech	Epping	Advanced Buildings PEM Fuel Cell System	Stationary Power Systems
		Session Ends	12:00 PM]				

Fuel Cell Poster Presentations

Mor	ndav A	Afternoon (O	utside Salons	ll and III)			Schedule as of:	Monday, May 16, 2005
	nber	•	Time	Presenter	Organization	DOE TDM		Sub-Program Category
FCF		Mon, May 23	3 1:45-5:00	Keith Kepler	Farasis Energy	Ho	Novel, Combinatorial Method for Developing Cathode Catalysts for Fuel Cells	Catalysts
FCF	? 10	Mon, May 23	3 1:45-5:00	Junhua Jiang	NuVant Systems	Ho	Improved Fuel Cell Cathode Catalysts Using Combinatorial Methods	Catalysts
FCF	7 11	Mon, May 23	3 1:45-5:00	Mo Khaleel	PNNL	Garbak	Modeling and Control of an SOFC APU	Auxiliary/Portable Power
FCF		Mon, May 23		John Turner	NREL	Garland	Corrosion Protection of Metallic Bipolar Plates for Fuel Cells	Bipolar Plates
FCF	° 13	Mon, May 23	3 1:45-5:00	Scott Weil	PNNL	Garland	Development of Low-Cost, Clad Metal Bipolar Plates for PEM Fuel Cells	Bipolar Plates
Tue	sday	Morning (Ou	tside Salons I	I, III, IV, and V)			Schedule as of:	Monday, May 16, 2005
Nun	nber	Date	<u>Time</u>	Presenter	Organization	DOE TDM	<u>Title</u>	Sub-Program Category
FCF	y 3	Tues, May 2	4 9:00-12:00	John Turner	NREL	Garland	Advanced Fuel Cell Membranes Based on Heteropolyacids	Membranes & MEAs
FCF	7 14	Tues, May 2	4 9:00-12:00	Levi Thompson	U of Michigan	Epping	Fuel Processors for PEM Fuel Cells	Fuel Processing
FCF	° 15	Tues, May 2	4 9:00-12:00	David Yee	Catalytica	Ho	Plate-Based Fuel Processing System	Fuel Processing
FCF	P 16	Tues, May 2	4 9:00-12:00	Ken Kelly	NREL	Epping	Application of Advanced CAE Methods for Quality and Durability of Fuel Cell Components	Stationary Power Systems
FCF	° 17	Tues, May 2	4 9:00-12:00	Mark Schneider	Del. Co.Electric Co-op	Epping	Residential Fuel Cell Demonstration by the Delaware County Electric Cooperative, Inc.	Stationary Power Systems
FCF	9 18	Tues, May 2	4 9:00-12:00	Mohammad Alam	U of S. Alabama	Epping	Smart Fuel Cell Operated Residential Micro Micro-Grid Community Grid Community	Stationary Power Systems
FCF	' 19	Tues, May 2	4 9:00-12:00	Ahmad Pesaran	NREL	Garland	Fuel Cells Vehicle Systems Analysis (Fuel Cell Freeze Investigation)	Trans. Sys & BOP
FCF	2 0	Tues, May 2	4 9:00-12:00	Edgar Lara-Curzio	ORNL	Garland	Graphite-based Components for Thermal Management in Fuel Cell Systems	Trans. Sys & BOP
FCF	2 1	Tues, May 2	4 9:00-12:00	Satish Mohapatra	Advanced Fluids Tech.	Но	Complex Coolant Fluid for PEM Fuel Cell Systems	Trans. Sys & BOP
FCF	22	Tues, May 2	4 9:00-12:00	S. Narayanan	JPL	Garland	Advanced Catalysts for Fuel Cells	Auxiliary/Portable Power
FCF	25	Tues, May 2	4 9:00-12:00	Shabbir Ahmed	ANL	Garland	Fuel Processor R&D	Fuel Processing
FCF	2 6	Tues, May 2	4 9:00-12:00	Greg Whyatt	PNNL	Garland	Fore Court Fuel Processing	Fuel Processing
FCF		Tues, May 2	4 9:00-12:00	Tommy Rockward	LANL	Garland	Component Benchmarking	Fuel Cell Characterization
FCF	° 28	Tues, May 2	4 9:00-12:00	Bryan Pivovar	LANL		Fundamental Science for Performance, Cost and Durability	Fuel Cell Characterization
FCF			4 9:00-12:00		ANL		Fuel Cell Testing	Fuel Cell Characterization
		•	utside Salons	s II, III, IV, and V)				Monday, May 16, 2005
	nber		<u>Time</u>	Presenter	Organization	DOE TDM		Sub-Program Category
FCF		Tues, May 2		Lee Spangler	Montana State Univ.	Manheim	Montana PEM Membrane Degradation Study	Membranes & MEAs
FCF	° 2	Tues, May 2	4 1:30-5:00	Tony DeCarmine	Oxford Perf. Matls.	Manheim	Development of Higher Temperature Membrane and Electrode Assembly for Proton Exchange Membrane	Membranes & MEAs
FCF		Tues, May 2		Bryan Pivovar	LANL	Garland	Non-Nafion Membrane Electrode Assemblies	Membranes & MEAs
FCF	°5	Tues, May 2	4 1:30-5:00	Christopher Cornelius	SNL	Garland	Hydrocarbon Membrane	Membranes & MEAs
FCF		Tues, May 2		Junqing Ma	T/J Technologies	Manheim	Low Cost, High Performance PPSA-based PEM Fuel Cell Membranes	Membranes & MEAs
FCF	8	Tues, May 2	4 1:30-5:00	Debbie Myers	ANL	Garland	Cathode Electrocatalysis:Platinum Stability and Non- Platinum Catalysts	Catalysts
FCF	9 30	Tues, May 2	4 1:30-5:00	George Simopoulos	Delphi	Garbak	Solid Oxide Fuel Cell Development for Auxiliary Power in Heavy Duty Vehicle Applications	Auxiliary/Portable Power
FCF	° 31	Tues, May 2	4 1:30-5:00	Dan Norrick	Delphi	Garbak	Diesel Fueled SOFC for Class 7/Class 8 On-Highway Truck Auxiliary Power	Auxiliary/Portable Power
FCF	3 2	Tues, May 2	4 1:30-5:00	Christie-Joy Brodrick	UC Davis	Garbak	Fuel Cell APU	Auxiliary/Portable Power
		Tues, May 2	4 1:45-5:00	Adriano Duarte Filho	Brazilian Ministry of Science and		Brazilian Fuel Cell Program (ProCaC)	International Activities

Storage Oral Presentations - Session B (Salons B and C)

Schedule as of: Tuesday, May 17, 2005

<u>Numb</u> ST	<u>er</u> 1	<u>Date</u> Mon, May 23	<u>Time</u> 1:45 PM	<u>Presenter</u> Sunita Satyapal	Organization DOE/EERE	DOE TDM	<u>Title</u> Hydrogen Storage	<u>Sub-Program Category</u> NA
ST	2	Mon, May 23 Session Ends	2:25 PM 3:55 PM	George Thomas Jim Wang	DOE/BES Sandia Nat. Labs	Read	Development of Metal Hydrides at Sandia National Laboratories	Metal Hydrides
ST ST	3 4	Tues, May 24 Tues, May 24		Craig Jensen Don Anton	Univ. of Hawaii UTRC	Read Read	Catalytically Enhanced Hydrogen Storage Systems High Density Hydrogen Storage System Demonstration Using NaAlH4 Complex Compound Hydrides	Metal Hydrides Metal Hydrides
ST	5	Tues, May 24	9:20 AM	Adriaan Sachtler	UOP	Read	Discovery of Novel Complex Metal Hydrides for Hydrogen Storage through Molecular Modeling and Combinatorial Methods	Metal Hydrides
ST	6	Tues, May 24 Break	9:45 AM 10:10 AM	Susanne Opalka	UTRC	Read	Complex Hydride Compounds with Enhanced Hydrogen Storage Capacity	Metal Hydrides
ST	7	Tues, May 24		Orhan Talu	Cleveland State Un.	Read	Sub-Nanostructured Non-Transition Metal Complex Grids for Hydrogen Storage	New Matl's & Concepts
ST	8	Tues, May 24	10:50 AM	Samuel Mao	U of California	Read	A Synergistic Approach to the Development of New Hydrogen Storage Materials	New Matl's & Concepts
ST ST		Tues, May 24 Tues, May 24			U. of S. Carolina U. of South FI.	Read Read	Clean Energy Research at the University of South Carolina Fuel Cell and Hydrogen Research University of South Florida	New Matl's & Concepts New Matl's & Concepts
ST ST ST	12	Lunch Tues, May 24 Tues, May 24 Tues, May 24	2:15 PM 2:40 PM	Bill Tumas Ying Wu Andy McClaine	LANL Millennium Cell Safe Hydrogen	Satyapal Satyapal Satyapal	Center of Excellence for Chemical Hydrogen Storage Process for the Regeneration of Sodium Borate to Sodium Borohydride for Use as a Hydrogen Storage Source Chemical Hydride Slurry for Hydrogen Production and Storage	Chemical Hydrides Chemical Hydrides Chemical Hydrides
ST	14	Break Tues, May 24	3:05 PM 3:25 PM	Alan Cooper	Air Products	Satyapal	Development of New Carbon-Based Sorbent Systems for an Effective Containment of Hydrogen	Chemical Hydrides
ST ST		Tues, May 24 Tues, May 24	3:50 PM 4:15 PM	Jui Ko Salvador Aceves	Quantum LLNL	Satyapal Satyapal	Low Cost, High Efficiency, High Pressure Hydrogen Storage Advanced Concepts for Containment of Hydrogen and Hydrogen Storage Materials	Compressed/Liquid Tanks Compressed/Liquid Tanks
ST	17	Tues, May 24 Session Ends	4:40 PM 5:05 PM	Chuck Ryan	Natl Center for Manf.Sci.	Milliken	Advanced Manufacturing Technologies for Renewable Energy Applications	New Matl's & Concepts
				I				
ST	18	Wed, May 25	8:00 AM	Mike Heben	NREL	Satyapal	DOE Carbon-based Materials Center of Excellence: NREL Activities and Overview	Carbon Materials
ST	19	Wed, May 25		Stephen Lasher	TIAX LLC	Satyapal	Analyses of Hydrogen Storage Materials and On-Board Systems	Testing & Analysis
ST ST		Break Wed, May 25 Wed, May 25		Rajesh Ahluwalia Richard Page	ANL SwRI	Satyapal Satyapal	System Level Analysis of Hydrogen Storage Options Standardized Testing Program for Chemical Hydride and Carbon Storage Technologies	Testing & Analysis Testing & Analysis

Storage Poster Presentations

Monday Afternoon 4-7 - Metal Hydride Center of Excellence Projects (Salon K)

Schedule as of: Tuesday, May 17, 2005

Numb	ber	Date	Time	Presenter	Organization	DOE TDM	Title	Sub-Program Category
-		Mon, May 23	4-7 PM	Jim Wang	Sandia Nat. Labs	Read		Metal Hydrides
STP		Mon, May 23	4-7 PM	Jim Wang	Sandia Nat. Labs	Read	Overview of SNL Activities	Metal Hydrides
STP		Mon, May 23	4-7 PM	Jim Wegrzyn	Brookhaven NL	Read	Synthesis and Properties of Aluminum Hydride as a Hydrogen	Metal Hydrides
• • •		·····, ····,·					Storage Material	
STP	17	Mon, May 23	4-7 PM	Robert Bowman	Jet Propulsion Lab	Read	Development and Evaluation of Advanced Hydride Systems for	Metal Hvdrides
		- , -,					Reversible Hydrogen Storage	,
STP	18	Mon, May 23	4-7 PM	Terry Udovic	NIST	Read	Neutron Scattering Characterization and Thermodynamic	Metal Hydrides
		-					Modeling of Advanced Metal Hydrides for Reversible Hydrogen	
							Storage	
STP	19	Mon, May 23	4-7 PM	Gilbert Brown	ORNL	Read	Novel Synthetic Approaches for the Preparation of Complex	Metal Hydrides
							Hydrides for Hydrogen Storage	
STP	20	Mon, May 23	4-7 PM	Ragaiy Zidan	Savannah River NL	Read	Development of Reversible Hydrogen Storage Alane	Metal Hydrides
STP	21	Mon, May 23	4-7 PM	Channing Ahn	Cal. Inst. of Tech.	Read	Synthesis of Nanophase Materials for Thermodynamically	Metal Hydrides
							Tuned Reversible Hydrogen Storage	
STP	22	Mon, May 23	4-7 PM	Bruce Clemens	Stanford Univ.	Read	Thermodynamically Tuned Nanophase Materials for Reversible	Metal Hydrides
							Hydrogen Storage: Structure and Kinetics of Nanoparticle and	
							Model System Materials	
STP	23	Mon, May 23	4-7 PM	lan Robertson	U of III. – U-C	Read		Metal Hydrides
							and Electronic Structure	
STP	24	Mon, May 23	4-7 PM	Dhanesh Chandra	U of Nev Reno	Read	Effect of Gaseous Impurities on Long-Term Thermal Cycling	Metal Hydrides
							and Aging Properties of Complex Hydrides for Hydrogen	
STP	25	Mon, May 23	4-7 PM	Karl Johnson/	Univ. of Pittsburgh &	Read		Metal Hydrides
				David Sholl	Carnegie Mellon		Systems	
STP	26	Mon, May 23	4-7 PM	Zak Fang	University of Utah	Read	Synthesis and Discovery of Nanocrystalline Reversible	Metal Hydrides
							Hydrides by Vapor Phase Reactions	
STP		Mon, May 23	4-7 PM	JC. Zhao	GE	Read	Lightweight Intermetallics for Hydrogen Storage	Metal Hydrides
STP		Mon, May 23	4-7 PM	Greg Olson	Hughes Research Labs	Read	Thermodynamically Tuned Nanophase Materials	Metal Hydrides
STP	29	Mon, May 23	4-7 PM	Xiao-Dong Xiang	Intematix Corp.	Read	High Throughput Combinatorial Chemistry Development of	Metal Hydrides
							Complex Metal Hydrides	
STP	59	Mon, May 23	4-7 PM	Craig Jensen	Univ. of Hawaii	Read	Fundamental Studies of Advanced High-Capacity, Reversible	Metal Hydrides
							Metal Hydrides	

Monday Number		ternoon 4-7 - (Date	Time	Hydrogen Center of Presenter	Organization	DOE TDM		Tuesday, May 17, 2009 Sub-Program Category
		Mon, May 23	4-7	Bill Tumas	LANL	Ordaz	Chemical Hydrogen Storage Center of Excellence	Chemical Hydrides
							, , , ,	
		Mon, May 23	4-7	Bill Tumas	LANL	Ordaz	Overview of LANL Activities	Chemical Hydrides
STP :	3 N	Mon, May 23	4-7 PM	Chris Aardahl	PNNL	Ordaz	Center of Excellence for Chemical Hydrogen Storage: PNNL Tasks and Collaborations	Chemical Hydrides
STP 4	4 N	Non, May 23	4-7 PM	Digby MacDonald		Ordaz	Electrochemical Hydrogen Storage Systems	Chemical Hydrides
STP \$	5 N	Non, May 23	4-7 PM	Anthony Arduengo	U of Alabama	Ordaz	Main Group Element Chemistry for Hydrogen Storage and Activation	Chemical Hydrides
STP (6 N	Mon, May 23	4-7 PM	Philip Power	U of Cal Davis	Ordaz	Chemical Hydrogen Storage Using Ultra-High Surface Area Main Group Elements	Chemical Hydrides
STP	7 N	Mon, May 23	4-7 PM	Fred Hawthorne	U of Cal. – Los Angeles	Ordaz	Chemical Hydrogen Storage Using Polyhedral Borane Anion Salts	Chemical Hydrides
STP 8	8 N	Mon, May 23	4-7 PM	Larry Sneddon	U of Pennsylvania	Ordaz	Amineborane Hydrogen Storage	Chemical Hydrides
		Mon, May 23	4-7 PM	Mike Heinekey	U of Washington	Ordaz	Kinetic and Mechanistic Studies of B-N	Chemical Hydrides
		Mon, May 23	4-7 PM	Ying Wu	Millennium Cell	Ordaz	Development of Advanced Chemical Hydrogen Storage and Generation System	Chemical Hydrides
STP 1	1 N	Mon, May 23	4-7 PM	Susan Linehan	Rohm and Haas	Ordaz	Novel Approaches to Hydrogen Storage: Conversion of Borates to Boron Hydrides	Chemical Hydrides
STP 1	4 N	Mon, May 23	4-7 PM	Clinton Lane	N. Arizona Univ	Ordaz	Safety Analysis and Applied Research on the Use of Borane- Amines for Hydrogen Storage	Chemical Hydrides
STP 1	2 N	Mon, May 23	4-7 PM	Xiao-Dong Xiang	Intematix Corp.	Ordaz	Combinatorial Synthesis and High Throughput Screening of Effective Catalysts for Chemical Hydrides	Chemical Hydrides
Monday	∕ Afi	ternoon 4-7 - (Carbon Ce	nter of Excellence I	Projects (Salon K)		Schedule as of	Tuesday, May 17, 200
-				nter of Excellence I Presenter		DOF TDM		
Number	<u> </u>	ternoon 4-7 - (<u>Date</u> Mon, May 23	Carbon Ce <u>Time</u> 4-7 PM	nter of Excellence I <u>Presenter</u> Mike Heben	Projects (Salon K) Organization NREL	<u>DOE TDM</u> Satyapal		Sub-Program Category
Number STP 3	<u> </u>	<u>Date</u> Mon, May 23	<u>Time</u> 4-7 PM	<u>Presenter</u> Mike Heben	Organization NREL	Satyapal	<u>Title</u> Overview of DOE Carbon-based Materials Center of Excellence	Sub-Program Category Carbon Materials
<u>Number</u> STP 3 STP 6	<u> </u>	<u>Date</u> Mon, May 23 Mon, May 23	<u>Time</u> 4-7 PM 4-7 PM	<u>Presenter</u> Mike Heben Mike Heben	Organization NREL NREL	Satyapal Satyapal	<u>Title</u> Overview of DOE Carbon-based Materials Center of Excellence Overview of NREL Activities	Sub-Program Category Carbon Materials Carbon Materials
Number STP 3 STP 6 STP 3	<u>E</u> 80 M 83 M 81 M	<u>Date</u> Mon, May 23 Mon, May 23 Mon, May 23	<u>Time</u> 4-7 PM 4-7 PM 4-7 PM	<u>Presenter</u> Mike Heben Mike Heben Joe Satcher	Organization NREL NREL LLNL	Satyapal Satyapal Satyapal	<u>Title</u> Overview of DOE Carbon-based Materials Center of Excellence Overview of NREL Activities Metal-doped Carbon Aerogels for Hydrogen Storage	Sub-Program Category Carbon Materials Carbon Materials Carbon Materials
Number STP 3 STP 6 STP 3 STP 3	<u> </u>	<u>Date</u> Mon, May 23 Mon, May 23 Mon, May 23 Mon, May 23	<u>Time</u> 4-7 PM 4-7 PM 4-7 PM 4-7 PM	<u>Presenter</u> Mike Heben Mike Heben Joe Satcher David Geohegan	Organization NREL NREL LLNL ORNL	Satyapal Satyapal Satyapal Satyapal	<u>Title</u> Overview of DOE Carbon-based Materials Center of Excellence Overview of NREL Activities Metal-doped Carbon Aerogels for Hydrogen Storage Synthesis and Processing of Single-Walled Carbon Nanohorns for Hydrogen Storage and Catalyst Supports	Sub-Program Category Carbon Materials Carbon Materials Carbon Materials Carbon Materials
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Number STP 3 STP 6 STP 3 STP 3 STP 3 STP 3 STP 3	<u> </u>	<u>Date</u> Mon, May 23 Mon, May 23 Mon, May 23 Mon, May 23 Mon, May 23	<u>Time</u> 4-7 PM 4-7 PM 4-7 PM 4-7 PM	Presenter Mike Heben Mike Heben Joe Satcher David Geohegan Dan Neumann	Organization NREL LLNL ORNL NIST	Satyapal Satyapal Satyapal Satyapal Satyapal	<u>Title</u> Overview of DOE Carbon-based Materials Center of Excellence Overview of NREL Activities Metal-doped Carbon Aerogels for Hydrogen Storage Synthesis and Processing of Single-Walled Carbon Nanohorns for Hydrogen Storage and Catalyst Supports Neutron Characterization of Carbon-Based Materials	Sub-Program Category Carbon Materials Carbon Materials Carbon Materials Carbon Materials Carbon Materials
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Number STP 3 STP 6 STP 3	50 M 33 M 31 M 32 M 33 M 34 M 35 M 36 M 37 M 38 M	Date Mon, May 23 Mon, May 23	Time 4-7 PM	Presenter Mike Heben Joe Satcher David Geohegan Dan Neumann Channing Ahn Jie Lui Peter Eklund Richard Smalley	Organization NREL LLNL ORNL NIST Cal. Inst. of Tech. Duke University Penn State Univ. Rice University	Satyapal Satyapal Satyapal Satyapal Satyapal Satyapal Satyapal Satyapal	Title Overview of DOE Carbon-based Materials Center of Excellence Overview of NREL Activities Metal-doped Carbon Aerogels for Hydrogen Storage Synthesis and Processing of Single-Walled Carbon Nanohorns for Hydrogen Storage and Catalyst Supports Neutron Characterization of Carbon-Based Materials Enhanced Hydrogen Dipole Physisorption Controlling the Diameter of Single Walled Carbon Nanotubes for Hydrogen Storage Study of Hydrogen Storage in Advanced Boron and Metal Loaded High Porosity Carbons Cloning Single Wall Carbon Nanotubes for Hydrogen Storage Optimization of SWNT Production and Theoretical Models of H2-SWNT Systems for Hydrogen Storage Examination of the Physical Aspects of Hydrogen Storage in	Sub-Program Category Carbon Materials Carbon Materials Carbon Materials Carbon Materials Carbon Materials Carbon Materials Carbon Materials Carbon Materials Carbon Materials
Number STP 3 STP 3	<u>-</u> 50 M 53 M 51 M 52 M 53 M 55 M 55 M 56 M 57 M 58 M 59 M	Date Mon, May 23 Mon, May 23	Time 4-7 PM	Presenter Mike Heben Joe Satcher David Geohegan Dan Neumann Channing Ahn Jie Lui Peter Eklund Richard Smalley Boris Yakobson	Organization NREL NREL LLNL ORNL NIST Cal. Inst. of Tech. Duke University Penn State Univ. Rice University Rice University	Satyapal Satyapal Satyapal Satyapal Satyapal Satyapal Satyapal Satyapal Satyapal Satyapal	Title Overview of DOE Carbon-based Materials Center of Excellence Overview of NREL Activities Metal-doped Carbon Aerogels for Hydrogen Storage Synthesis and Processing of Single-Walled Carbon Nanohorns for Hydrogen Storage and Catalyst Supports Neutron Characterization of Carbon-Based Materials Enhanced Hydrogen Dipole Physisorption Controlling the Diameter of Single Walled Carbon Nanotubes for Hydrogen Storage Study of Hydrogen Storage in Advanced Boron and Metal Loaded High Porosity Carbons Cloning Single Wall Carbon Nanotubes for Hydrogen Storage Optimization of SWNT Production and Theoretical Models of H2-SWNT Systems for Hydrogen Storage Examination of the Physical Aspects of Hydrogen Storage in MOFs Hydrogen Storage in Graphite Nanofibers and the Spillover	Sub-Program Category Carbon Materials Carbon Materials Carbon Materials Carbon Materials Carbon Materials Carbon Materials Carbon Materials Carbon Materials Carbon Materials Carbon Materials
Number STP 3 STP 4	<u>-</u> <u>C</u> 	Date Mon, May 23 Mon, May 23	Time 4-7 PM	Presenter Mike Heben Joe Satcher David Geohegan Dan Neumann Channing Ahn Jie Lui Peter Eklund Richard Smalley Boris Yakobson Omar Yaghi Ralph Yang	Organization NREL NREL LLNL ORNL NIST Cal. Inst. of Tech. Duke University Penn State Univ. Rice University Rice University U of Michigan U of Michigan	Satyapal Satyapal Satyapal Satyapal Satyapal Satyapal Satyapal Satyapal Satyapal Satyapal Satyapal Satyapal	Title Overview of DOE Carbon-based Materials Center of Excellence Overview of NREL Activities Metal-doped Carbon Aerogels for Hydrogen Storage Synthesis and Processing of Single-Walled Carbon Nanohorns for Hydrogen Storage and Catalyst Supports Neutron Characterization of Carbon-Based Materials Enhanced Hydrogen Dipole Physisorption Controlling the Diameter of Single Walled Carbon Nanotubes for Hydrogen Storage Study of Hydrogen Storage in Advanced Boron and Metal Loaded High Porosity Carbons Cloning Single Wall Carbon Nanotubes for Hydrogen Storage Optimization of SWNT Production and Theoretical Models of H2-SWNT Systems for Hydrogen Storage Examination of the Physical Aspects of Hydrogen Storage in MOFs Hydrogen Storage in Graphite Nanofibers and the Spillover Mechanism	Sub-Program Category Carbon Materials Carbon Materials
Number STP 3 STP 4 STP 4	<u>-</u> <u>C</u> 	Date Mon, May 23 Mon, May 23	Time 4-7 PM 4-7 PM	Presenter Mike HebenMike Heben Joe Satcher David GeoheganDan Neumann Channing Ahn Jie LuiPeter EklundRichard Smalley Boris YakobsonOmar Yaghi Ralph Yang Yue Wu	Organization NREL NREL LLNL ORNL NIST Cal. Inst. of Tech. Duke University Penn State Univ. Rice University Rice University U of Michigan U of Michigan U of N. Carolina	Satyapal Satyapal Satyapal Satyapal Satyapal Satyapal Satyapal Satyapal Satyapal Satyapal Satyapal Satyapal Satyapal	Title Overview of DOE Carbon-based Materials Center of Excellence Overview of NREL Activities Metal-doped Carbon Aerogels for Hydrogen Storage Synthesis and Processing of Single-Walled Carbon Nanohorns for Hydrogen Storage and Catalyst Supports Neutron Characterization of Carbon-Based Materials Enhanced Hydrogen Dipole Physisorption Controlling the Diameter of Single Walled Carbon Nanotubes for Hydrogen Storage Study of Hydrogen Storage in Advanced Boron and Metal Loaded High Porosity Carbons Cloning Single Wall Carbon Nanotubes for Hydrogen Storage Optimization of SWNT Production and Theoretical Models of H2-SWNT Systems for Hydrogen Storage Examination of the Physical Aspects of Hydrogen Storage in MOFs Hydrogen Storage in Graphite Nanofibers and the Spillover Mechanism Characterization of Hydrogen Adsorption by NMR	Carbon Materials Carbon Materials
Jumber GTP 3 GTP 4 GTP 4 GTP 4	<u>-</u> <u>D</u> 	Date Mon, May 23 Mon, May 23	Time 4-7 PM	Presenter Mike Heben Joe Satcher David Geohegan Dan Neumann Channing Ahn Jie Lui Peter Eklund Richard Smalley Boris Yakobson Omar Yaghi Ralph Yang	Organization NREL NREL LLNL ORNL NIST Cal. Inst. of Tech. Duke University Penn State Univ. Rice University Rice University U of Michigan U of Michigan	Satyapal Satyapal Satyapal Satyapal Satyapal Satyapal Satyapal Satyapal Satyapal Satyapal Satyapal Satyapal	Title Overview of DOE Carbon-based Materials Center of Excellence Overview of NREL Activities Metal-doped Carbon Aerogels for Hydrogen Storage Synthesis and Processing of Single-Walled Carbon Nanohorns for Hydrogen Storage and Catalyst Supports Neutron Characterization of Carbon-Based Materials Enhanced Hydrogen Dipole Physisorption Controlling the Diameter of Single Walled Carbon Nanotubes for Hydrogen Storage Study of Hydrogen Storage in Advanced Boron and Metal Loaded High Porosity Carbons Cloning Single Wall Carbon Nanotubes for Hydrogen Storage Optimization of SWNT Production and Theoretical Models of H2-SWNT Systems for Hydrogen Storage Examination of the Physical Aspects of Hydrogen Storage in MOFs Hydrogen Storage in Graphite Nanofibers and the Spillover Mechanism	Sub-Program Categor Carbon Materials Carbon Materials

Т	uesc	lay Evening - O'Bry	/ne Gallery	at the Daughters o	of the American Revoluti	on	Schedule as of:	Tuesday, May 17, 2005
		er Date	Time	Presenter	Organization	DOE TDM		Sub-Program Category
		15 Tues, May 24	6:30-8:30		Sandia Nat. Labs	Read	Overview of DOE Metal Hydride Center of Excellence (MHCoE)	
		62 Tues, May 24	6:30-8:30	0	Sandia Nat. Labs	Read	Development of Metal Hydrides at Sandia National Laboratories	
S	TP	30 Tues, May 24	6:30-8:30	Mike Heben	NREL	Satyapal	Overview of DOE Carbon-based Materials Center of Excellence	Carbon Materials
S		63 Tues, May 24	6:30-8:30	Mike Heben	NREL		NREL Activities in DOE Carbon-based Materials Center of Excellence	Carbon Materials
S	TP	60 Tues, May 24	6:30-8:30	Bill Tumas	LANL	Ordaz	Center of Excellence for Chemical Hydrogen Storage: LANL	Chemical Hydrides
S	TP	61 Tues, May 24	6:30-8:30	Bill Tumas	LANL	Ordaz	Center of Excellence for Chemical Hydrogen Storage: LANL	Chemical Hydrides
					Note: The following p	osters will	be attended from 6:30 to 7:30 PM	
S	TP	28 Tues, May 24	6:30-7:30	Greg Olson	Hughes Research Labs	Read	Thermodynamically Tuned Nanophase Materials	Metal Hydrides
S	TP	18 Tues, May 24	6:30-7:30	Terry Udovic	NIST	Read	Neutron Scattering Characterization and Thermodynamic Modeling of Advanced Metal Hydrides for Reversible Hydrogen Storage	Metal Hydrides
S	TΡ	27 Tues, May 24	6:30-7:30	JC. Zhao	GE	Read	Lightweight Intermetallics for Hydrogen Storage	Metal Hydrides
S	TΡ	37 Tues, May 24	6:30-7:30	Richard Smalley	Rice University	Satyapal	Cloning Single Wall Carbon Nanotubes for Hydrogen Storage	Carbon Materials
S	TΡ	43 Tues, May 24	6:30-7:30	Guido Pez	Air Products	Satyapal	Designing Microporous Carbons for Hydrogen Storage Systems	Carbon Materials
<u> </u>	тп	24 Tures May 24	0.00 7.00	la a Cataban		Catural	Matel dans d Carban Association (Judraman Starson	Carban Matariala
-	TP TP	31 Tues, May 24 8 Tues, May 24		Joe Satcher Larry Sneddon	LLNL U of Pennsylvania	Satyapal Ordaz	Metal-doped Carbon Aerogels for Hydrogen Storage Amineborane Hydrogen Storage	Carbon Materials Chemical Hydrides
-	TP	4 Tues, May 24		Digby MacDonald	,	Ordaz	Electrochemical Hydrogen Storage Systems	Chemical Hydrides
0		+ 1003, May 24	0.00 7.00	Digby MacDonald	r chir otate oniv.	Oldaz	Electrochemical Hydrogen otorage bystems	onemical Hydrides
					Note: The following p	osters will	be attended from 7:30 to 8:30 PM	
S	TP	22 Tues, May 24	7:30-8:30	Bruce Clemens	Stanford Univ.	Read	Thermodynamically Tuned Nanophase Materials for Reversible Hydrogen Storage: Structure and Kinetics of Nanoparticle and Model System Materials	Metal Hydrides
S	TΡ	59 Tues, May 24	7:30-8:30	Craig Jensen	Univ. of Hawaii	Read	•	Metal Hydrides
S	TP	29 Tues, May 24	7:30-8:30	Xiao-Dong Xiang	Internatix Corp.	Read	High Throughput Combinatorial Chemistry Development of	Metal Hydrides
		~ ~ ~		5	D		Complex Metal Hydrides	A A A A A A
S	TP	38 Tues, May 24		Boris Yakobson	Rice University	Satyapal	Optimization of SWNT Production and Theoretical Models of H2-SWNT Systems for Hydrogen Storage	Carbon Materials
-	TΡ	42 Tues, May 24		Alan MacDiarmid	U of Pennsylvania	Satyapal	Conducting Polymers as New Materials for Hydrogen Storage	Carbon Materials
S	ΤP	32 Tues, May 24	7:30-8:30	David Geohegan	ORNL	Satyapal	Synthesis and Processing of Single-Walled Carbon Nanohorns for Hydrogen Storage and Catalyst Supports	Carbon Materials
S	TP	3 Tues, May 24	7:30-8:30	Chris Aardahl	PNNL	Ordaz	Center of Excellence for Chemical Hydrogen Storage: PNNL	Chemical Hydrides
							Tasks and Collaborations	-
S	TP	14 Tues, May 24	7:30-8:30	Clinton Lane	N. Arizona Univ	Ordaz	Safety Analysis and Applied Research on the Use of Borane- Amines for Hydrogen Storage	Chemical Hydrides
S	ΤP	5 Tues, May 24	7:30-8:30	Anthony Arduengo	U of Alabama	Ordaz	Main Group Element Chemistry for Hydrogen Storage and Activation	Chemical Hydrides

UIIDE	r Date	Time	Presenter	he American Revolution Organization	DOE TDM		Tuesday, May 17, 20 Sub-Program Categor
				Note: The following p	osters will	be attended from 6:30 to 7:30 PM	
TP :	35 Tues, May 24	6:30-7:30	Jie Lui	Duke University	Satyapal	Controlling the Diameter of Single Walled Carbon Nanotubes for Hydrogen Storage	Carbon Materials
	41 Tues, May 24	6:30-7:30		U of N. Carolina NIST	Satyapal	Characterization of Hydrogen Adsorption by NMR	Carbon Materials
	33 Tues, May 2421 Tues, May 24		Dan Neumann Channing Ahn	Cal. Inst. of Tech.	Satyapal Read	Neutron Characterization of Carbon-Based Materials Synthesis of Nanophase Materials for Thermodynamically	Carbon Materials Metal Hydrides
			Ū			Tuned Reversible Hydrogen Storage	inetal i ganace
ΓP	16 Tues, May 24	6:30-7:30	Jim Wegrzyn	Brookhaven NL	Read	Synthesis and Properties of Aluminum Hydride as a Hydrogen Storage Material	Metal Hydrides
TP :	24 Tues, May 24	6:30-7:30	Dhanesh Chandra	U of Nev Reno	Read	Effect of Gaseous Impurities on Long-Term Thermal Cycling and Aging Properties of Complex Hydrides for Hydrogen Storage	Metal Hydrides
				Note: The following p	osters will	be attended from 7:30 to 8:30 PM	
TP :	36 Tues, May 24	7:30-8:30	Peter Eklund	Penn State Univ.	Satyapal	Study of Hydrogen Storage in Advanced Boron and Metal Loaded High Porosity Carbons	Carbon Materials
TP 4	40 Tues, May 24	7:30-8:30	Ralph Yang	U of Michigan	Satyapal	Hydrogen Storage in Graphite Nanofibers and the Spillover Mechanism	Carbon Materials
TP :	34 Tues, May 24	7:30-8:30	Channing Ahn	Cal. Inst. of Tech.	Satyapal	Enhanced Hydrogen Dipole Physisorption	Carbon Materials
P	17 Tues, May 24	7:30-8:30	Robert Bowman	Jet Propulsion Lab	Read	Development and Evaluation of Advanced Hydride Systems for Reversible Hydrogen Storage	Metal Hydrides
	20 Tues, May 24		Ragaiy Zidan	Savannah River NL	Read	Development of Reversible Hydrogen Storage Alane	Metal Hydrides
P :	26 Tues, May 24	7:30-8:30	Zak Fang	University of Utah	Read	Synthesis and Discovery of Nanocrystalline Reversible	Metal Hydrides
						Hydrides by vapor Phase Reactions	
		ary and the	Pennsylvania Foye	er at the Daughters of the	e American		
evolu	ition			·		Schedule as of:	
volu		ary and the	Pennsylvania Foye	Organization	DOE TDM	Title	
evolu Imbe	i <mark>tion</mark> r <u>Date</u>	<u>Time</u>	Presenter	Organization Note: The following p	DOE TDM posters will	<u>Title</u> <u>be attended from 6:30 to 7:30 PM</u>	Sub-Program Catego
evolu umbe	ition	<u>Time</u>		Organization	DOE TDM	Title	Tuesday, May 17, 20 Sub-Program Catego Carbon Materials
imbe	i <mark>tion</mark> r <u>Date</u>	<u>Time</u> 6:30-7:30	Presenter	Organization Note: The following p	DOE TDM posters will	Schedule as of: <u>Title</u> <u>be attended from 6:30 to 7:30 PM</u> Examination of the Physical Aspects of Hydrogen Storage in MOFs Combinatorial Synthesis and High Throughput Screening of	Sub-Program Catego
evolu umbe	t rion <u>r Date</u> 39 Tues, May 24	<u>Time</u> 6:30-7:30	<u>Presenter</u> Omar Yaghi Xiao-Dong Xiang	Organization Note: The following p	<u>DOE TDM</u> posters will Satyapal	Schedule as of: <u>Title</u> <u>be attended from 6:30 to 7:30 PM</u> Examination of the Physical Aspects of Hydrogen Storage in MOFs	Sub-Program Catego Carbon Materials
evolu umbe FP FP	t rion <u>r Date</u> 39 Tues, May 24 12 Tues, May 24	<u>Time</u> 6:30-7:30 6:30-7:30 6:30-7:30	<u>Presenter</u> Omar Yaghi Xiao-Dong Xiang	<u>Organization</u> <u>Note: The following r</u> U of Michigan Intematix Corp.	<u>DOE TDM</u> posters will Satyapal Ordaz	Schedule as of: <u>Title</u> <u>be attended from 6:30 to 7:30 PM</u> Examination of the Physical Aspects of Hydrogen Storage in MOFs Combinatorial Synthesis and High Throughput Screening of Effective Catalysts for Chemical Hydrides Development of Advanced Chemical Hydrogen Storage and	Sub-Program Catego Carbon Materials Chemical Hydrides
Evolu Imbe IP IP IP	t ion <u>r Date</u> 39 Tues, May 24 12 Tues, May 24 10 Tues, May 24	<u>Time</u> 6:30-7:30 6:30-7:30 6:30-7:30 6:30-7:30	Presenter Omar Yaghi Xiao-Dong Xiang Ying Wu	Organization <u>Note: The following r</u> U of Michigan Intematix Corp. Millennium Cell	<u>DOE TDM</u> posters will Satyapal Ordaz Ordaz	Schedule as of: <u>Title</u> <u>be attended from 6:30 to 7:30 PM</u> Examination of the Physical Aspects of Hydrogen Storage in MOFs Combinatorial Synthesis and High Throughput Screening of Effective Catalysts for Chemical Hydrides Development of Advanced Chemical Hydrogen Storage and Generation System Chemical Hydrogen Storage Using Ultra-High Surface Area	Sub-Program Catego Carbon Materials Chemical Hydrides Chemical Hydrides
evolu umbe TP TP TP	Ition Image: scalar stress 39 Tues, May 24 12 Tues, May 24 10 Tues, May 24 6 Tues, May 24	<u>Time</u> 6:30-7:30 6:30-7:30 6:30-7:30 6:30-7:30	Presenter Omar Yaghi Xiao-Dong Xiang Ying Wu Philip Power	Organization Note: The following p U of Michigan Internatix Corp. Millennium Cell U of Cal Davis U of Ill. – U-C	DOE TDM posters will Satyapal Ordaz Ordaz Ordaz Read	Schedule as of: <u>Title</u> <u>be attended from 6:30 to 7:30 PM</u> Examination of the Physical Aspects of Hydrogen Storage in MOFs Combinatorial Synthesis and High Throughput Screening of Effective Catalysts for Chemical Hydrides Development of Advanced Chemical Hydrogen Storage and Generation System Chemical Hydrogen Storage Using Ultra-High Surface Area Main Group Elements Reversible Hydrogen Storage Materials – Structure, Chemistry	Sub-Program Catego Carbon Materials Chemical Hydrides Chemical Hydrides Chemical Hydrides
evolu umbe TP TP TP TP TP	Ition Image: scalar stress 39 Tues, May 24 12 Tues, May 24 10 Tues, May 24 6 Tues, May 24	<u>Time</u> 6:30-7:30 6:30-7:30 6:30-7:30 6:30-7:30 6:30-7:30	Presenter Omar Yaghi Xiao-Dong Xiang Ying Wu Philip Power Ian Robertson	Organization Note: The following p U of Michigan Internatix Corp. Millennium Cell U of Cal Davis U of Ill. – U-C	DOE TDM posters will Satyapal Ordaz Ordaz Ordaz Read	Schedule as of: <u>Title</u> <u>be attended from 6:30 to 7:30 PM</u> Examination of the Physical Aspects of Hydrogen Storage in MOFs Combinatorial Synthesis and High Throughput Screening of Effective Catalysts for Chemical Hydrides Development of Advanced Chemical Hydrogen Storage and Generation System Chemical Hydrogen Storage Using Ultra-High Surface Area Main Group Elements Reversible Hydrogen Storage Materials – Structure, Chemistry and Electronic Structure <u>be attended from 7:30 to 8:30 PM</u> Novel Synthetic Approaches for the Preparation of Complex	Sub-Program Catego Carbon Materials Chemical Hydrides Chemical Hydrides Chemical Hydrides
evolu umbe TP TP TP TP TP	Ition Image: scalar stress 39 Tues, May 24 12 Tues, May 24 10 Tues, May 24 6 Tues, May 24 23 Tues, May 24	<u>Time</u> 6:30-7:30 6:30-7:30 6:30-7:30 6:30-7:30 6:30-7:30 7:30-8:30	Presenter Omar Yaghi Xiao-Dong Xiang Ying Wu Philip Power Ian Robertson	Organization Note: The following r U of Michigan Internatix Corp. Millennium Cell U of Cal Davis U of Ill. – U-C Note: The following r	DOE TDM Sosters will Satyapal Ordaz Ordaz Ordaz Read Sosters will Read	Schedule as of: <u>Title</u> <u>be attended from 6:30 to 7:30 PM</u> Examination of the Physical Aspects of Hydrogen Storage in MOFs Combinatorial Synthesis and High Throughput Screening of Effective Catalysts for Chemical Hydrides Development of Advanced Chemical Hydrogen Storage and Generation System Chemical Hydrogen Storage Using Ultra-High Surface Area Main Group Elements Reversible Hydrogen Storage Materials – Structure, Chemistry and Electronic Structure <u>be attended from 7:30 to 8:30 PM</u>	Sub-Program Catego Carbon Materials Chemical Hydrides Chemical Hydrides Chemical Hydrides Metal Hydrides
evolu umbe rP rP rP rP rP rP	Ition Integration 39 Tues, May 24 12 Tues, May 24 10 Tues, May 24 6 Tues, May 24 23 Tues, May 24 19 Tues, May 24	<u>Time</u> 6:30-7:30 6:30-7:30 6:30-7:30 6:30-7:30 6:30-7:30 7:30-8:30 7:30-8:30	Presenter Omar Yaghi Xiao-Dong Xiang Ying Wu Philip Power Ian Robertson Gilbert Brown Fred Hawthorne	Organization Note: The following r U of Michigan Internatix Corp. Millennium Cell U of Cal Davis U of Ill. – U-C Note: The following r ORNL	DOE TDM Sosters will Satyapal Ordaz Ordaz Ordaz Read Sosters will Read	Schedule as of: <u>Title</u> <u>be attended from 6:30 to 7:30 PM</u> Examination of the Physical Aspects of Hydrogen Storage in MOFs Combinatorial Synthesis and High Throughput Screening of Effective Catalysts for Chemical Hydrides Development of Advanced Chemical Hydrogen Storage and Generation System Chemical Hydrogen Storage Using Ultra-High Surface Area Main Group Elements Reversible Hydrogen Storage Materials – Structure, Chemistry and Electronic Structure <u>be attended from 7:30 to 8:30 PM</u> Novel Synthetic Approaches for the Preparation of Complex Hydrides for Hydrogen Storage Chemical Hydrogen Storage Using Polyhedral Borane Anion	Sub-Program Catego Carbon Materials Chemical Hydrides Chemical Hydrides Chemical Hydrides Metal Hydrides Metal Hydrides Chemical Hydrides

Wednesday Morning 9-1 - New Materials and Concepts (Salon K)

Schedule as of: Tuesday, May 17, 2005

N	umb	er	Date	Time	Presenter	Organization	DOE TDM	Title	Sub-Program Category
S	TΡ	1 '	Wed, May 25	9:00-1:00	Andrew Weisberg	LLNL	Satyapal	Next Generation Hydrogen Storage Containers	New Matl's & Concepts
S	TΡ	2	Wed, May 25	9:00-1:00	Lee Stefanakos	U. of South FI.	Satyapal	Fuel Cell and Hydrogen Research	New Matl's & Concepts
S	TP	13	Wed, May 25	9:00-1:00	Ashok Damle	Research Triangle Inst.	Satyapal	Development of Regenerable, High-Capacity Boron Nitrogen Hydrides for Hydrogen Storage	New Matl's & Concepts
S	TP	44	Wed, May 25	9:00-1:00	Yury Gogotsi	U of Pennsylvania	Read	Carbide-Derived Carbons with Tunable Porosity Optimized for Hydrogen Storage	Carbon Materials
S	TΡ	45	Wed, May 25	9:00-1:00	Chinbay Fan	GTI	Read	Electron-Charged Graphite-Based Hydrogen Storage Material	Carbon Materials
S	TP	46	Wed, May 25	9:00-1:00	Israel Cabasso	SUNY - Syracuse	Read	Nanostructured Activated Carbon for Hydrogen Storage	Carbon Materials
S	TP	47	Wed, May 25	9:00-1:00	Matt Hall	Alfred University	Read	Glass Microspheres for Hydrogen Storage	New Matl's & Concepts
S	TP	48	Wed, May 25	9:00-1:00	Viktor Struzhkin	Carnegie Institute	Read	Inorganic Clathrates for Hydrogen Storage	New Matl's & Concepts
S	TΡ	49	Wed, May 25	9:00-1:00	Jim Hwang	Mich.Tech. Univ.	Read	Metal Perhydrides for Hydrogen Storage	New Matl's & Concepts
S	TP	50	Wed, May 25	9:00-1:00	Juergen Eckert	U of C – Santa Barbara	Read	Hydrogen Storage Materials with Binding Intermediate Between Chemisorption and Physisorption	New Matl's & Concepts
S	TΡ	51	Wed, May 25	9:00-1:00	Leon Shaw	U of Connecticut	Read	Lithium Nitride-Based Materials for Hydrogen Storage	New Matl's & Concepts
S	TΡ	52	Wed, May 25	9:00-1:00	Omar Yaghi	U of Michigan	Read	New Concepts for Optimized Hydrogen Storage in MOFs	New Matl's & Concepts
S	TΡ	53	Wed, May 25	9:00-1:00	Jerry Atwood	U of Missouri - St. Louis	Read	Hydrogen Storage in Novel Organic Clathrates	New Matl's & Concepts
S	TP	55	Wed, May 25	9:00-1:00	Jim Ritter	U of S. Carolina	Read	Development of Complex Metal Hydride Hydrogen Storage Materials	New Matl's & Concepts
S	TP	56	Wed, May 25	9:00-1:00	Michael Matthews	U of S. Carolina	Read	Clean Energy Research Project III: Hydrogen Storage Using Chemical Hydrides	Metal Hydrides
S	TP	57	Wed, May 25	9:00-1:00	Mark Richards	GTI	Read	Underground LH2 Off-Board Hydrogen Storage Technology	Compressed/Liquid Tanks
S	TP	58	Wed, May 25	9:00-1:00	Ragaiy Zidan	Savannah River NL	Read	Development and Characterization of Novel Complex Hydrides	Metal Hydrides

Technology Validation Oral Presentations - Session B (Salons B and C)

Number Date	Time	Presenter	Organization	DOE TDM	Title	Sub-Program Category
TV 1 Wed, Ma	y 25 11:05 AM	Sig Gronich	DOE		Technology Validation Sub-Program	NA
TV 2 Wed, Ma		Rob Regan	DTE Energy	Gronich	DTE Energy Hydrogen Technology Park	Power Parks Analysis
Lunch	12:00 PM					
TV 3 Wed, Ma	y 25 1:15 PM	Richard Rocheleau	Hawaii Natural Energy	Gronich	Hawaii Hydrogen Center for Development and	Power Parks Analysis
			Inst.		Deployment of Distributed Energy Systems	
TV 4 Wed, Ma	y 25 1:35 PM	Raymond Hobbs	Pinnacle	Gronich	Hydrogen Power Park - Business Opportunities	Power Parks Analysis
		o 1/		.	Concept Project	
TV 5 Wed, Ma	y 25 1:55 PM	Greg Keenan	Air Products	Gronich	Validation of an Integrated System for a Hydrogen-	Power Parks Analysis
		To del Oceano	Ala Das desta	Ownerstate	Fueled Power Park	Defection Tests Deve & Deve
TV 6 Wed, Ma	y 25 2:25 PM	Todd Carlson	Air Products	Gronich	Novel Compression and Fueling Apparatus to Meet	Refueling Tech. Dev. & Demo.
		Kaith Minles		Quantiah	Hydrogen Vehicle Range Requirements	Custome Analysia
TV 7 Wed, Ma	y 25 2:50 PM	Keith Wipke	NREL	Gronich	Controlled Hydrogen Fleet & Infrastructure Analysis	Systems Analysis
Break	3:15 PM	7				
TV 8 Wed, Ma		Mark Pedersen	Air Products	Gronich	California Hydrogen Infrastructure Project	Vehicle Demonstrations
TV 9 Wed, Ma	,	Klaus BonHoff	DaimlerChrysler	Gronich	Controlled Hydrogen Fleet and Infrastructure	Vehicle Demonstrations
10 0 0000,100	ly 20 0.00 m	Riado Donnion	Daimeromysici	Oronich	Demonstration and Validation Project	Venicie Demonstrations
TV 10 Wed, Ma	v 25 4:15 PM	Greg Frenette	Ford	Gronich	Hydrogen Fuel Cell Vehicle & Infrastructure	Vehicle Demonstrations
		Crog Fronotto	1 olu	Cronion	Demonstration Program Review	
TV 11 Wed, Ma	v 25 4:35 PM	Rajesh Paulose	Chevron Texaco	Gronich	Controlled Hydrogen Fleet and Infrastructure	Vehicle Demonstrations
,,	,	,			Demonstration and Validation Project	
TV 12 Wed, Ma	v 25 4:55 PM	Roz Sell	General Motors	Gronich	Hydrogen Vehicle and Infrastructure Demonstration	Vehicle Demonstrations
	-				and Validation	
Session	Ends 5:15 PM					

Technology Validation Poster Presentations

Wednesday Morning (Outside Salons B and C)

Wednesday Morning (Wednesday Morning (Outside Salons B and C) Schedule as of: Monday, May 16, 2005										
Number Date	Time	Presenter	Organization	DOE TDM	Title	Sub-Program Category					
TVP 1 Wed, May 25	9:00-12:00	Kofi Bota	Clark Atlanta Univ.	Gronich	Hydrogen from Biomass for Urban Transportation	Power Parks Analysis					
TVP 2 Wed, May 25		Joe Ferguson	City of Chattanooga	Gronich	Chattanooga Fuel Cell Demonstration Project	Power Parks Analysis					
TVP 5 Wed, May 25		0	NREL	Garbak	Technology Validation: Fuel Cell Bus Evaluations	Systems Analysis					
TVP 6 Wed, May 25		John Harness	HyRadix/SunLine	Gronich	Auto-Thermal Reforming Based Refueling Station at	Refueling Tech. Dev. & Demo.					
	5.00 12.00	0011111111033		Gronien	SunLine	Rendening reen. Dev. & Denio.					
TVP 7 Wed, May 25	9:00-12:00	Mark Wait	Air Products	Gronich	R&D of a PEM Fuel Cell, Hydrogen Reformer, and	Refueling Tech. Dev. & Demo.					
					Vehicle Refueling Facility (Las Vegas Energy Park)						
TVP 11 Wed, May 25	9:00-12:00	Neal Mulligan	Collier Techs.	Gronich	,	Vehicle Demonstrations					
					and Heavy Duty Vehicles						
TVP 12 Wed, May 25	9:00-12:00	David Barnes	Vehicle Projects LLC	Gronich	Fuel Cell Powered Underground Mine Loader Vehicle	Vehicle Demonstrations					
				0 1							
TVP 13 Wed, May 25	9:00-12:00	Robert Peters	U. of Alabama	Gronich	Global Assessment of Hydrogen Based Technologies	Vehicle Demonstrations					
TVP 14 Wed, May 25	0.00 12.00	Marga Malandaz	NREL	Gronich	Hydrogen Transition Infrastructure Analysis	Systems Analysis					
TVF 14 Weu, May 25	9.00-12.00	Margo Melendez		Gronich	Trydrogen Transition Initastructure Analysis	Systems Analysis					
Wednesday Afternoon	(Outside Sa	alons B and C)			Schedule as of:	Monday, May 16, 2005					
Number Date	Time	Presenter	Organization	DOE TDM		Sub-Program Category					
TVP 3 Wed, May 25	1:30-5:00	Dave McLean	NextEnergy	Gronich	NextEnergy Microgrid and Hydrogen Fueling Facility	H2/Fuel Cell Demo/Analysis					
TVP 4 Wed, May 25	1:30-5:00	Andy Lutz	SNL	Gronich	Power Parks System Simulation	Systems Analysis					
TVP 8 Wed, May 25	1:30-5:00	Robert Boehm	UNLV	Gronich	Hydrogen Filling Station	Refueling Tech. Dev. & Demo.					
1 vi 0 vveu, iviay 20	1.00 0.00	Robert Doelin		Gronien		Refueling reen. Dev. & Demo.					

Safety, Codes & Standards Oral Presentations - Session B (Salons B and C)

Schedule as of: Monday, May 16, 2005

Numb	ber	Date	<u>Time</u>	Presenter	Organization	DOE TDM	Title	Sub-Program Category
SA	1	Thur, May 26	8:30 AM	Patrick Davis	DOE	Davis	Safety, Codes and Standards	NA
SA	2	Thur, May 26	9:00 AM	Jim Ohi	NREL	Davis	Hydrogen Codes and Standards	Safety, Codes & Stans.
SA	3	Thur, May 26	9:30 AM	Jay Keller	SNL	Davis	Research and Development for Hydrogen Safety,	
				_			Codes and Standards	Safety, Codes & Stans.
		Break	10:00 AM					
SA	4	Thur, May 26	10:30 AM	Cathy Padro	LANL	Davis	International Standards and Regulations	Safety, Codes & Stans.
SA	5	Thur, May 26	11:00 AM	Bruce Kinzey	PNNL	Davis	HAMMER Emergency Response Training for the	
							Hydrogen Economy	Safety, Codes & Stans.
SA	6	Thur, May 26	11:30 AM	Steven Weiner	PNNL	Davis	Hydrogen Safety Review Panel	Safety, Codes & Stans.
		Session Ends	12:00 PM					

Safety, Codes & Standards Poster Presentations

Wednesday Afternoon	Wednesday Afternoon (Outside Salons B and C)										
Number Date	<u>Time</u>	Presenter	Organization	DOE TDM	<u>Title</u>	Sub-Program Category					
SAP 1 Wed, May 25	1:30-5:00	Susan Schoenung	Longitude 122 West, Inc.	Davis	IEA Hydrogen Task 18: Evaluation of Integrated Demonstration Systems	Safety, Codes & Stans.					
SAP 2 Wed, May 25	1:30-5:00	Mary-Rose de Valladares	M.R.S. Enterprises, LLC	Davis	IEA Hydrogen Implementing Agreement Secretariat	Safety, Codes & Stans.					

Education Oral Presentations - Session A (Salons V and VI)

Schedule as of: Monday, May 16, 2005

<u>Number</u> <u>Date</u>	<u>Time</u>	<u>Presenter</u>	<u>Organization</u>	DOE TDM	<u>Title</u>	<u>Sub-Program Category</u>
ED 1 Wed, May 25	4:00 PM	Christy Cooper	DOE		Hydrogen Education	NA
ED 2 Wed, May 25	4:25 PM	Ruth Borger	Lansing Comm. College	Cooper	Hydrogen/Alternative Energy Center	Education
ED 3 Wed, May 25 Session Ends	4:45 PM 5:05 PM	John Griffin	Nicholls State Un.	Cooper	Shared Technology Transfer Project	Education
ED 4 Thur, May 26	8:30 AM	Paul Williamson	U. of Montana	Cooper	Montana Hydrogen Futures Project	Education
ED 5 Thur, May 26	8:50 AM	Barbara Nagle	U of Cal. Berkeley	Cooper	Hydrogen Technology and Energy Curriculum	Education
ED 6 Thur, May 26	9:15 AM	Mary Spruill	NEED	Cooper	H2 Educate!	Education

Education Poster Presentations

/, and VI)			· · · · · · · · · · · · · · · · · · ·
enter Organization	DOE TDM	<u>Title</u>	Sub-Program Category
Armstrong ORNL	Cooper	Baseline Knowledge Assessment	Education
i Andersen Andersen Creative	Cooper	Hydrogen Technology Overview Publication and	Education
		Program Information Kit	
Tidball Energy & Envr. Anal) Cooper	Understanding the Hydrogen Economy	Education
ck Serfass NHA	Cooper	Broad-Based Solicitation - Hydrogen Education	Education
Kripowicz STAC	Cooper	Hydrogen Technology Learning Centers	Education
i	Organization Armstrong ORNL Andersen Andersen Creative Tidball Energy & Envr. Anal ck Serfass NHA	OrganizationDOE TDMArmstrongORNLCooperAndersenAndersen CreativeCooperTidballEnergy & Envr. Analy Cooperck SerfassNHACooper	OrganizationDOE TDMTitleArmstrongORNLCooperBaseline Knowledge AssessmentAndersenAndersen CreativeCooperHydrogen Technology Overview Publication and Program Information KitTidballEnergy & Envr. Analy CooperUnderstanding the Hydrogen Economy Broad-Based Solicitation - Hydrogen Education

Systems Analysis Oral Presentations - Session A (Salons V and VI)

Schedule as of: Monday, May 16, 2005

Schedule as of: Monday, May 16, 2005

Number	r	<u>Date</u>	Time	Presenter	Organization	DOE TDM	<u>Title</u>	Sub-Program Category
AN 1	l '	Thur, May 26	9:40 AM	Fred Joseck	DOE		Systems Analysis	NA
AN 2	2	Thur, May 26	10:05 AM	Maggie Mann	NREL	Joseck	Moving Toward Consistent Analysis in the HFC&IT Program: H2A	Systems Analysis
		Break	10:30 AM					
AN 3	3	Thur, May 26	10:50 AM	David Greene	ORNL	Joseck	Hydrogen Transition Modeling and Analysis:	Systems Analysis
AN 4	t i	Thur, May 26	11:15 AM	Walter Short	NREL	Joseck	WinDS-H2 Model and Analysis	Systems Analysis
AN 5	5	Thur, May 26	11:40 AM	Joan Ogden	UC Davis	Joseck	Technical and Economic Studies of Regional Transition Strategies toward Widespread Use of	Systems Analysis
AN 6		Thur Mov 26	12:05 PM	Stephen Lasher	TIAX LLC	loooli	Hydrogen Energy	Svotomo Analysia
AN 6		Thur, May 26	12.00 PM	Stephen Lasher		Joseck	Fuel Choice for FCVs: Hydrogen Infrastructure Costs	Systems Analysis
		Session Ends	12:30 PM					

Systems Analysis Poster Presentations

Thursday Morning (Outside Salons II, III, and IV)

Ti<u>me</u> DOE TDM Title Sub-Program Category Number Date Presenter Organization ANP 1 Thur, May 26 9:00-12:00 Bill Dougherty Tellus Joseck Hydrogen Production in a GHG-Constrained Systems Analysis Situation: Major Results & Conclusions ANP 2 Thur, May 26 9:00-12:00 Brian D. James Directed Techs. Joseck Hydrogen Production Infrastructure Options Systems Analysis ANP 3 Thur, May 26 9:00-12:00 Harry Vidas Energy & Envr. Joseck Impact of Hydrogen Production on U.S. Energy Systems Analysis Analysis Markets ANP 4 Thur, May 26 9:00-12:00 George Tolley RCF, Inc. Analysis of the Hydrogen Production and Delivery Joseck Systems Analysis Infrastructure as a Complex Adaptive System ANP 5 Thur, May 26 9:00-12:00 Marylynn Placet Hydrogen Analysis Support PNNL Joseck Systems Analysis ANP 6 Thur, May 26 9:00-12:00 Mark Ruth NREL Macro-System Model Systems Analysis Joseck ANP 7 Thur, May 26 9:00-12:00 Michael Wang ANL Joseck Well-to-Wheels Analysis with the GREET Model Systems Analysis

Alphabetical List of Presentations by Presenter

Tuesday, May 17, 2005

Presenter Nan	ne								
Last	<u>First</u>	Organization	Type	Date	<u>Time</u>	Numbe			Sub-Program Category
Aardahl	Chris	PNNL	Poster	Tues, May 24	7:30-8:30	STP	3	Р	Chemical Hydrides
Aaron	Tim	Praxair	Deater	Mon, May 23	4-7 PM 1:30-5:00	PDP	4	Р	Distributed Production
Aaron Aceves	Salvador	LLNL	Poster Poster	Tues, May 24 Wed, May 25	9:00-12:00		4 54	P	Hydrogen Delivery
Aceves	Salvador	LLNL	Oral	Tues, May 23	4:15 PM	ST	16	B	Compressed/Liquid Tanks
Adams	Thad	SRNL	Poster	Wed, May 25	9:00-12:00		52	P	Hydrogen Delivery
Adzic	Radoslav	Brookhaven Nat. Lab.	Oral	Tues, May 24	1:35 PM	FC	17	Ċ	Catalysts
Ahluwalia	Rajesh	ANL	Oral	Wed, May 25	1:40 PM	FC	35	č	Trans. Sys & BOP
Ahluwalia	Rajesh	ANL	Oral	Wed, May 25	10:15 AM	ST	20	В	Testing & Analysis
Ahmed	Shabbir	ANL	Poster	Tues, May 24	9:00-12:00		25	P	Fuel Processing
Ahmed	Shabbir	ANL	Poster	Tues, May 24	1:30-5:00	PDP	7	Р	Distributed Production
Ahn	Channing	Cal. Inst. of Tech.	Poster	Tues, May 24	6:30-7:30	STP	21	Р	Metal Hydrides
	-			Mon, May 23	4-7 PM				-
Ahn	Channing	Cal. Inst. of Tech.	Poster	Tues, May 24	7:30-8:30	STP	34	Р	Carbon Materials
				Mon, May 23	4-7 PM				
Alam	Mohammad	U of S. Alabama	Poster	Tues, May 24	9:00-12:00	FCP	18	Р	Stationary Power Systems
Andersen	Cindi	Andersen Creative	Poster	Thur, May 26	9:00-12:00	EDP	2	Р	Education
Anton	Don	UTRC	Oral	Tues, May 24	8:55 AM	ST	4	В	Metal Hydrides
Arduengo	Anthony	U of Alabama	Poster	Tues, May 24	7:30-8:30	STP	5	Р	Chemical Hydrides
				Mon, May 23	4-7 PM				
Arif	Muhammad	NIST	Oral	Wed, May 25	3:20 PM	FC	38	С	Fuel Cell Characterization
Armstrong	Tim	ORNL	Poster	Thur, May 26	9:00-12:00		1	Р	Education
Atanasoski	Radoslav	3M	Oral	Tues, May 24	11:05 AM	FC	14	С	Catalysts
Atanassova	Paolina	Superior MicroPowders	Oral	Tues, May 24	2:25 PM	FC	19	С	Catalysts
Atwood	Jerry	U of Missouri - St. Loui:	Poster	Wed, May 25	9:00-1:00	STP	53	Р	New Matl's & Concepts
Bailey	Sterling	Mechanology, LLC	Oral	Wed, May 25	9:15 AM	FC	28	С	Trans. Sys & BOP
Balachandran		ANL	Poster	Wed, May 25	1:30-5:00	PDP	14	Р	DOE Fossil Energy
Balachov	louri	SRI International	Poster	Mon, May 23	1:45-5:00	PDP	43	Р	Electrolysis
Barnes	David	Vehicle Projects LLC	Poster	Wed, May 25	9:00-12:00		12	Р	Vehicle Demonstrations
Bessette	Norm	Nisource Energy Tech.	Poster	Tues, May 24	1:30-5:00	PDP	5	P	Production
Bischoff	Brian	ORNL	Oral	Tues, May 24	10:45 AM	PD	12	A	DOE Fossil Energy
Bischoff	Brian	ORNL	Poster	Wed, May 25	1:30-5:00	PDP	18	P P	Separations
Bischoff	Brian		Poster	Wed, May 25	1:30-5:00	PDP PD	19		DOE Nuclear Energy
Blake	Dan	NREL	Oral	Tues, May 24	3:20 PM		19	A P	Biological Production
Bloom Boehm	Ira Robert	ANL UNLV	Poster Poster	Tues, May 24 Wed, May 25	9:00-12:00 1:30-5:00	TVP	29 8	P	Fuel Cell Characterization Refueling Tech. Dev. & Demo.
BonHoff	Klaus	DaimlerChrysler	Oral	Wed, May 25 Wed, May 25	3:55 PM	TV	9	В	Vehicle Demonstrations
Borger	Ruth	Lansing Comm. College	Oral	Wed, May 25 Wed, May 25	4:25 PM	ED	9 2	A	Education
Borup	Rodney	LANL	Oral	Wed, May 25 Wed, May 25	4:10 PM	FC	40	c	Fuel Cell Characterization
Bota	Kofi	Clark Atlanta Univ.	Poster	Wed, May 25 Wed, May 25	9:00-12:00		1	P	Power Parks Analysis
Bourgeois	Richard	GE Global Research	Poster	Tues, May 24	1:30-5:00	PDP	10	P	Electrolysis
Bowman	Robert	Jet Propulsion Lab	Poster	Tues, May 24	7:30-8:30	STP	17	P	Metal Hydrides
Dominan				Mon, May 23	4-7 PM	•	••	•	inotal i lyanaoo
Brodrick	Christie-Joy	UC Davis	Poster	Tues, May 24	1:30-5:00	FCP	32	Р	Auxiliary/Portable Power
Brown	Gilbert	ORNL	Poster	Tues, May 24	7:30-8:30	STP	19	P	Metal Hydrides
				Mon, May 23	4-7 PM				,
Cabasso	Israel	SUNY - Syracuse	Poster	Wed, May 25	9:00-1:00	STP	46	Р	Carbon Materials
Campbell	Stephen	Ballard	Oral	Tues, May 24	10:40 AM	FC	13	С	Catalysts
Carlson	Todd	Air Products	Oral	Wed, May 25	2:25 PM	ΤV	6	В	Refueling Tech. Dev. & Demo.
Carter	J. David	ANL	Oral	Wed, May 25	2:05 PM	FC	36	С	Auxiliary/Portable Power
Chandra	Dhanesh	U of Nev Reno	Poster	Tues, May 24	6:30-7:30	STP	24	Р	Metal Hydrides
				Mon, May 23	4-7 PM				
Chen	Christopher	Air Products	Poster	Wed, May 25	1:30-5:00	PDP	15	Р	Distributed Production
Chen	Tan-Ping	Nexant Inc.	Poster	Wed, May 25	9:00-12:00	PDP	50	Р	Hydrogen Delivery
Clark	Tom	UTC	Oral	Thur, May 26	10:25 AM	FC	46	С	Stationary Power Systems
Clemens	Bruce	Stanford Univ.	Poster	Tues, May 24	7:30-8:30	STP	22	Р	Metal Hydrides
				Mon, May 23	4-7 PM				
Cooper	Christy	DOE	Oral	Wed, May 25	4:00 PM	ED	1	А	NA
Cooper	Alan	Air Products	Oral	Tues, May 24	3:25 PM	ST	14	В	Chemical Hydrides
Cornelius	Christopher	SNL	Poster	Tues, May 24	1:30-5:00	FCP	5	Р	Membranes & MEAs
Cortright	Randy	Virent Energy Sys.	Oral	Mon, May 23	5:05 PM	PD	7	Α	Distributed Production
Cropley	Cecelia	Giner Electrochemical	Oral	Wed, May 25	8:30 AM	PD	23	Α	Electrolysis
Damle	Ashok	Research Triangle Inst.	Poster	Wed, May 25	9:00-1:00	STP	13	Р	New Matl's & Concepts
Das	Subodh K.	Secat, Inc.	Oral	Wed, May 25	3:30 PM	PD	35	Α	Hydrogen Delivery
Davis	Patrick	DOE	Oral	Thur, May 26	8:30 AM	SA	1	В	NA
de Valladares	Mary-Rose	M.R.S. Enterprises, LL(Poster	Wed, May 25	1:30-5:00	SAP	2	Р	Safety, Codes & Stans.
	Tony	Oxford Perf. Matls.	Poster	Tues, May 24	1:30-5:00	FCP	2	Р	Membranes & MEAs
DeCarmine									
DeCastro	Emory	De Nora	Oral	Mon, May 23	2:15 PM	FC	2	С	MEAs
		De Nora U of Toledo DOE	Oral Poster Oral	Mon, May 23 Mon, May 23 Mon, May 23	2:15 PM 1:45-5:00 1:45 PM	FC PDP PD	2 58 1	C P A	MEAs Photoelectrochemical NA

Dougherty	Bill	Tellus	Poster	Thur, May 26	9:00-12:00	ANP	1	Р	Systems Analysis
Eckert	Juergen	U of C – Santa Barbara	Poster	Wed, May 25	9:00-1:00	STP	50	Р	New Matl's & Concepts
Eklund	Peter	Penn State Univ.	Poster	Tues, May 24	7:30-8:30	STP	36	Р	Carbon Materials
				Mon, May 23	4-7 PM				
Erickson	Paul Anders	U Cal., Davis	Poster	Tues, May 24		PDP	8	Р	DOE Fossil Energy
Escobedo						FC	9	ċ	
	Gonzalo	Dupont	Oral	Tues, May 24					Membranes & MEAs
Eudy	Leslie	NREL	Poster	Wed, May 25	9:00-12:00		5	Р	Systems Analysis
Evans	Bob	NREL	Poster	Wed, May 25	9:00-12:00 l	PDP	55	Р	Distributed Production
Fan	Liang Shih	Ohio State Un.	Poster	Tues, May 24	1:30-5:00 l	PDP	1	Р	DOE Fossil Energy
Fan	Chinbay	GTI	Poster	Wed, May 25	9:00-1:00	STP	45	Р	Carbon Materials
Fang	Zak	University of Utah	Poster	Tues, May 24	7:30-8:30	STP	26	Р	Metal Hydrides
5				Mon, May 23	4-7 PM				,
Feng	Zhili	ORNL	Oral	Wed, May 25		PD	33	А	Hydrogen Delivery
0		-		-					
Ferguson	Joe	City of Chattanooga	Poster	Wed, May 25		TVP	2	P	Power Parks Analysis
Foure	Michel	Arkema Chemicals	Oral	Tues, May 24		FC	18	С	Membranes & MEAs
Frenette	Greg	Ford	Oral	Wed, May 25	4:15 PM	ΤV	10	В	Vehicle Demonstrations
Garzon	Fernando	LANL	Oral	Wed, May 25	2:30 PM	FC	37	С	Fuel Cell Characterization
Gee	Mark K.	Honeywell	Oral	Wed, May 25	8:50 AM	FC	27	С	Trans. Sys & BOP
Gehman	Richard	Honeywell	Oral	Wed, May 25	10:45 AM	FC	31	С	Trans. Sys & BOP
Geohegan	David	ORNL	Poster	Tues, May 24		STP	32	P	Carbon Materials
Coonogan	Davia	OTTLE	1 00101	Mon, May 23	4-7 PM	011	02	•	Carbon materiale
Ghirardi	Maria	NREL	Oral			PD	16	۸	Biological Draduction
	Maria			Tues, May 24				A	Biological Production
Gogotsi	Yury	U of Pennsylvania	Poster	Wed, May 25		STP	44	P	Carbon Materials
Greene	David	ORNL	Oral	Thur, May 26		AN	3	Α	Systems Analysis
Griffin	John	Nicholls State Un.	Oral	Wed, May 25	4:45 PM	ED	3	Α	Education
Gronich	Sig	DOE	Oral	Wed, May 25	11:05 AM	ΤV	1	В	NA
Grot	Stephen	Ion Power, Inc.	Oral	Tues, May 24	2:45 PM	FC	20	С	Platinum Recycling
Guro	David	Air Products	Oral	Mon, May 23		PD	4	A	Distributed Production
Hall	Matt	Alfred University	Poster	Wed, May 25		STP	47	P	New Matl's & Concepts
				Wed, May 25 Wed, May 25				P	•
Harness	John	HyRadix/SunLine	Poster	· •		TVP	6		Refueling Tech. Dev. & Demo.
Hartvigsen	Joseph	Ceramatec Inc.	Poster	Tues, May 24		PDP	12	Р	Electrolysis
Hawthorne	Fred	U of Cal. – Los Angeles	Poster	Tues, May 24	7:30-8:30	STP	7	Р	Chemical Hydrides
				Mon, May 23	4-7 PM				
Heben	Mike	NREL	Oral	Wed, May 25	8:00 AM	ST	18	В	Carbon Materials
Heben	Mike	NREL	Poster	Tues, May 24	6:30-8:30	STP	30	Р	Carbon Materials
				Mon, May 23	4-7 PM	••••		•	
Heben	Mike	NREL	Poster	-		STP	63	Р	Carbon Materials
переп	WIKE	INNEL	FUSIEI	Tues, May 24		SIF	03	г	Carbon materials
	-		A 1	Mon, May 23	4-7 PM		~~		
Hechanova	Tony	UNLV	Oral	Wed, May 25		PD	30	A	DOE Nuclear Energy
Heinekey	Mike	U of Washington	Poster	Tues, May 24		STP	9	Р	Chemical Hydrides
				Mon, May 23	4-7 PM				
Henderson	A. David	DOE	Oral	Mon, May 23	2:15 PM	PD	36	Α	Prod. Using Nuclear
Hicks	Mike	3M	Oral	Tues, May 24	9:45 AM	FC	12	С	Membranes & MEAs
Hobbs	Raymond	Pinnacle	Oral	Wed, May 25		ΤV	4	В	Power Parks Analysis
Holmes	Tom	Nuvera	Oral	Thur, May 26		FC	45	č	Fuel Processing
	Scott	Pall Corp.	Poster	Wed, May 25		PDP	26	P	Separations
Hopkins		•							•
Hwang	Jim	Mich.Tech. Univ.	Poster	Wed, May 25		STP	49	P	New Matl's & Concepts
Ibrahim	Samir	Teledyne	Oral	Wed, May 25		PD	26	A	Electrolysis
James	Brian D.	Directed Techs.	Poster	Thur, May 26	9:00-12:00	ANP	2	Р	Systems Analysis
Jensen	Craig	Univ. of Hawaii	Oral	Tues, May 24	8:30 AM	ST	3	В	Metal Hydrides
Jensen	Craig	Univ. of Hawaii	Poster	Tues, May 24	7:30-8:30	STP	59	Р	Metal Hydrides
	U U			Mon, May 23	4-7 PM				
Jiang	Junhua	NuVant Systems	Poster	Mon, May 23		FCP	10	Р	Catalysts
Johnson	Karl	U of Pittsburgh	Poster	Tues, May 24		STP	25	P	Metal Hydrides
301113011	Ran	o or r ittsburgh	1 03161	Mon, May 23	4-7 PM	011	25		Metal Hydrides
laaseli	Fred	DOF	Oral			A N I	4	^	NIA
Joseck	Fred	DOE	Oral	Thur, May 26		AN	1	A	NA
Keenan	Greg	Air Products	Oral	Wed, May 25		ΤV	5	В	Power Parks Analysis
Keller	Jay	SNL	Oral	Thur, May 26	9:30 AM	SA	3	В	Safety, Codes & Stans.
Kelly	Ken	NREL	Poster	Tues, May 24	9:00-12:00 l	FCP	16	Р	Stationary Power Systems
Kepler	Keith	Farasis Energy	Poster	Mon, May 23	1:45-5:00 l	FCP	9	Р	Catalysts
Khaleel	Мо	PNNL	Poster	Mon, May 23	1:45-5:00 l	FCP	11	Р	Auxiliary/Portable Power
Killmeyer	Richard	NETL	Poster	Wed, May 25		PDP	25	P	DOE Fossil Energy
Kim	Yu Seung	LANL	Oral	Wed, May 25		FC	41	Ċ	Cold Operation
	•			-		PD			-
King	David	PNNL	Oral	Mon, May 23			6	A	Distributed Production
Kinzey	Bruce	PNNL	Oral	Thur, May 26		SA	5	В	Safety, Codes & Stans.
Knight	Brian	UTCFC	Oral	Wed, May 25		FC	30	С	Trans. Sys & BOP
Krause	Theodore	ANL	Oral	Tues, May 24		FC	24	С	Fuel Processing
Krause	Theodore	ANL	Oral	Tues, May 24	4:50 PM	FC	25	С	Fuel Processing
Kripowicz	Bob	STAC	Poster	Thur, May 26	9:00-12:00 l	EDP	5	Р	Education
Kroposki	Ben	NREL	Oral	Wed, May 25		PD	25	A	Electrolysis
Kumar	Ravi	GE Energy	Oral	Mon, May 23		PD	3	A	Distributed Production
Lane	Clinton	N. Arizona Univ	Poster	Tues, May 24		STP	14	P	Chemical Hydrides
Luno	Ginton		1 03101	-	4-7 PM	511			Chemiour Fyunues
Land	David	0	Devi	Mon, May 23			4.0	-	
Lanning	Bruce	SwRI	Poster	Wed, May 25		PDP	16	P	DOE Fossil Energy
Lara-Curzio	Edgar	ORNL	Poster	Tues, May 24		FCP	20	Р	Trans. Sys & BOP
Lasher	Stephen	TIAX LLC	Oral	Thur, May 26		AN	6	A	Systems Analysis
Lasher	Stephen	TIAX LLC	Oral	Wed, May 25	9:30 AM	ST	19	В	Testing & Analysis
				-					

Lau	Francis	GTI	Oral	Tues, May 24	11:10 AM PD	13	Α	Separations
Lau	Francis	GTI	Poster	Wed, May 25	1:30-5:00 PDP	24	Р	DOE Fossil Energy
Lee	James	ORNL	Oral	Tues, May 24	2:05 PM PD	17	А	Biological Production
Lewis	Michele	ANL	Oral		11:35 AM PD	29	A	5
				Wed, May 25				DOE Nuclear Energy
Lightner	Valri	DOE	Oral	Mon, May 23	1:45 PM FC	1	С	NA
Lin	Jerry Y.S.	U. of Cincinatti	Poster	Tues, May 24	1:30-5:00 PDP	11	Р	Separations
Linehan	Susan	Rohm and Haas	Poster	Tues, May 24	7:30-8:30 STP	11	Р	Chemical Hydrides
				Mon, May 23	4-7 PM			-
Liss	Bill	GTI	Oral	Mon, May 23	4:15 PM PD	5	А	Distributed Production
	Ke							
Liu		GE Global Res.	Oral	Tues, May 24	9:20 AM PD	10	A	Distributed Production
Liu	Paul KT	Media & Process Tech.	Poster	Tues, May 24	1:30-5:00 PDP	9	Р	DOE Fossil Energy
Livengood	David	ANL	Poster	Wed, May 25	9:00-12:00 PDP	53	Р	Hydrogen Delivery
Lomax, Jr.	Frank	H2Gen Inno. Inc.	Oral	Tues, May 24	8:55 AM PD	9	Α	Distributed Production
Lui	Jie	Duke University	Poster	Tues, May 24	6:30-7:30 STP	35	Р	Carbon Materials
	0.0			Mon, May 23	4-7 PM		•	
1	ب العرض ٥	CNII	Destar			4	Б	Customa Analusia
Lutz	Andy	SNL	Poster	Wed, May 25	1:30-5:00 TVP	4	Р	Systems Analysis
Lynch	David	Startech Environmenta	Poster	Wed, May 25	9:00-12:00 PDP	27	Р	Biomass Reforming
Ma	Junqing	T/J Technologies	Poster	Tues, May 24	1:30-5:00 FCP	6	Р	Membranes & MEAs
MacDiarmid	Alan	U of Pennsylvania	Poster	Tues, May 24	7:30-8:30 STP	42	Р	Carbon Materials
		,		Mon, May 23	4-7 PM			
MacDonald	Digby	Penn State Univ.	Poster	Tues, May 24	6:30-7:30 STP	4	Р	Chemical Hydrides
MacDonalu	Digby	Fenn State Only.	FUSIEI			4	Г	Chemical Hydrides
	_		_	Mon, May 23	4-7 PM		_	
MacQueen	Brent	SRI International	Poster	Mon, May 23	1:45-5:00 PDP	33	Р	Photoelectrochemical
Madan	Arun	MVSystems, Inc.	Poster	Mon, May 23	1:45-5:00 PDP	37	Р	Photoelectrochemical
Mallock	Prof. Tom	Penn State Univ.	Oral	Mon, May 23	2:30 PM PD	37	А	0
	Tom	Northern Power Sys.	Poster	•	1:30-5:00 PDP	28	P	Electrolysis
Maloney				Wed, May 25				
Maness	PinChing	NREL	Oral	Tues, May 24	2:30 PM PD	18	A	Biological Production
Mann	Maggie	NREL	Oral	Thur, May 26	10:05 AM AN	2	Α	Systems Analysis
Mao	Samuel	U of California	Oral	Tues, May 24	10:50 AM ST	8	В	New Matl's & Concepts
Martin	Michael	Edison Materials Tech	Poster	Wed, May 25	9:00-12:00 PDP	57	P	Cross-Cutting
								0
Matthews	Michael	U of S. Carolina	Poster	Wed, May 25	9:00-1:00 STP	56	Р	Metal Hydrides
Maupin	Dr. Paul	DOE/BES	Oral	Mon, May 23	2:05 PM FC	51	С	0
McClaine	Andy	Safe Hydrogen	Oral	Tues, May 24	2:40 PM ST	13	В	Chemical Hydrides
McFarland	Eric	U of Cal. Santa Barbara	Oral	Tues, May 24	4:35 PM PD	22	А	Photoelectrochemical
	Tim	ORNL	Oral		8:30 AM FC	42	c	
McIntyre				Thur, May 26				Trans. Sys & BOP
McLean	Dave	NextEnergy	Poster	Wed, May 25	1:30-5:00 TVP	3	Р	H2/Fuel Cell Demo/Analysis
McNulty	Thomas	GE Global Research	Poster	Mon, May 23	1:45-5:00 PDP	34	Р	Photoelectrochemical
Melendez	Margo	NREL	Poster	Wed, May 25	9:00-12:00 TVP	14	Р	Systems Analysis
Melis	Tasios	UC Berkeley	Oral	Tues, May 24	1:15 PM PD	15	А	Biological Production
Melis	Tasios			Mon, May 23		29	P	-
		UC Berkeley	Poster					Biological Production
Miller	Eric	U of Hawaii	Oral	Tues, May 24	3:45 PM PD	20	Α	Photoelectrochemical
Mintz	Marianne	ANL	Oral	Wed, May 25	2:05 PM PD	32	Α	Hydrogen Delivery
Mohapatra	Satish	Advanced Fluids Tech.	Poster	Tues, May 24	9:00-12:00 FCP	21	Р	Trans. Sys & BOP
More	Karren	ORNL	Oral	Tues, May 24	4:10 PM FC	23	С	Bipolar Plates
More	Karren	ORNL	Oral	Wed, May 25	3:45 PM FC	39	č	Fuel Cell Characterization
				•				
Muga	Luis	TOFTEC, Inc.	Poster	Wed, May 25	9:00-1:00 STP	54	P	New Matl's & Concepts
Mulligan	Neal	Collier Techs.	Poster	Wed, May 25	9:00-12:00 TVP	11	Р	Vehicle Demonstrations
Myers	Debbie	ANL	Oral	Mon, May 23	4:50 PM FC	7	С	Membranes & MEAs
Myers	Debbie	ANL	Poster	Tues, May 24	1:30-5:00 FCP	8	Р	Catalysts
Nagle	Barbara	U of Cal. Berkeley	Oral	Thur, May 26	8:50 AM ED	5	А	Education
-	S.	JPL	Poster	Tues, May 24	9:00-12:00 FCP	22	P	Auxiliary/Portable Power
Narayanan								,
Nenoff	Tina	SNL	Poster	Wed, May 25	1:30-5:00 PDP	17	Р	Separations
Neumann	Dan	NIST	Poster	Tues, May 24	6:30-7:30 STP	33	Р	Carbon Materials
				Mon, May 23	4-7 PM			
Newman	John	LBNL	Oral	Wed, May 25	5:00 PM FC	50	С	Fuel Cell Characterization
Newman	John	LBNL	Poster	Tues, May 24	9:00-12:00 FCP	33	P	Fuel Cell Characterization
				•				
Norrick	Dan	Cummins	Poster	Tues, May 24	1:30-5:00 FCP	31	P	Auxiliary/Portable Power
Ogden	Joan	UC Davis	Oral	Thur, May 26	11:40 AM AN	5	A	Systems Analysis
Ohi	Jim	NREL	Oral	Thur, May 26	9:00 AM SA	2	В	Safety, Codes & Stans.
Olson	Greg	Hughes Research Labs	Poster	Tues, May 24	6:30-7:30 STP	28	Р	Metal Hydrides
-		0		Mon, May 23	4-7 PM	-		
Onalka	Susanno	UTRC	Oral	Tues, May 24		6	В	Metal Hydrides
Opalka	Susanne		Oral					Metal Hydrides
Padro	Cathy	LANL	Oral	Thur, May 26	10:30 AM SA	4	В	Safety, Codes & Stans.
Page	Richard	SwRI	Oral	Wed, May 25	10:40 AM ST	21	В	Testing & Analysis
Paulose	Rajesh	Chevron Texaco	Oral	Wed, May 25	4:35 PM TV	11	В	Vehicle Demonstrations
Payzant	Andrew	ORNL	Poster	Wed, May 25	1:30-5:00 PDP	21	Р	Separations
Pedersen	Mark	Air Products	Oral	•	3:35 PM TV	8	B	Vehicle Demonstrations
				Wed, May 25				
Perret	Bob	Univ. of Nevada	Oral	Wed, May 25	11:05 AM PD	28	Α	Hi-Temp Thermochemical
Pesaran	Ahmad	NREL	Poster	Tues, May 24	9:00-12:00 FCP	19	Р	Trans. Sys & BOP
Peters	John	Montana State U.	Poster	Mon, May 23	1:45-5:00 PDP	36	Р	Photoelectrochemical
Peters	Robert	U. of Alabama	Poster	Wed, May 25	9:00-12:00 TVP	13	P	Vehicle Demonstrations
Pez	Guido	Air Products	Oral	Wed, May 25	3:10 PM PD	34	A	Hydrogen Delivery
Pez	Guido	Air Products	Poster	Tues, May 24	6:30-7:30 STP	43	Р	Carbon Materials
				Mon, May 23	4-7 PM			
Pickard	Paul	INL/SNL	Oral	Wed, Mav 25	10:40 AM PD	27	A	DOE Nuclear Energy
		INL/SNL SNI	Oral Poster	Wed, May 25 Mon May 23	10:40 AM PD 1:45-5:00 PDP	27 39	A P	DOE Nuclear Energy Electrolysis
Pile	Donald	SNL	Poster	Mon, May 23	1:45-5:00 PDP	39	Р	Electrolysis
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Pivovar	Bryan	LANL	Poster	Tues, May 24	9:00-12:00 FCP	28	Р	Fuel Cell Characterization
Placet	Marylynn	PNNL	Poster	Thur, May 26	9:00-12:00 ANP	5	Р	Systems Analysis
Polle	Juergen	Adv. Bionutrition Corp	Poster	Mon, May 23	1:45-5:00 PDP	30	Р	Biological Production
Pont	Giullermo	Honeywell	Oral	Wed, May 25	9:40 AM FC	29	С	Trans. Sys & BOP
Popov	Branko N.	U of So. Carolina	Oral	Tues, May 24	11:30 AM FC	15	С	Catalysts
Porter	Stephen	Proton Energy Systems	Poster	Mon, May 23	1:45-5:00 PDP	41	Р	Electrolysis
	•	•••••		•				
Power	Philip	U of Cal Davis	Poster	Tues, May 24	6:30-7:30 STP	6	Р	Chemical Hydrides
				Mon, May 23	4-7 PM			
Drotocilo	Logio		Oral			4	<u> </u>	
Protsailo	Lesia	UTC	Oral	Mon, May 23	3:30 PM FC	4	С	MEAs
Regan	Rob	DTE Energy	Oral	Wed, May 25	11:35 AM TV	2	В	Power Parks Analysis
Richards	Mark	GTI	Poster	Wed, May 25	9:00-1:00 STP	57	Р	Compressed/Liquid Tanks
				•				
Ritter	Jim	U of S. Carolina	Poster	Wed, May 25	9:00-1:00 STP	55	Р	New Matl's & Concepts
Robertson	lan	U of III. – U-C	Poster	Tues, May 24	6:30-7:30 STP	23	Р	Metal Hydrides
Robertson	iun	001111.000	1 00101			20		Wetar Hydrides
				Mon, May 23	4-7 PM			
Rocheleau	Richard	Hawaii Natural Energy	Oral	Wed, May 25	1:15 PM TV	3	В	Power Parks Analysis
		•••		-				
Rockward	Tommy	LANL	Poster	Tues, May 24	9:00-12:00 FCP	27	Р	Fuel Cell Characterization
Ross	Phil	LBNL	Oral	Tues, May 24	8:55 AM FC	10	С	Catalysts
		NREL			9:00-12:00 ANP	6	P	
Ruth	Mark		Poster	Thur, May 26				Systems Analysis
Ruud	James	GE Global Research	Poster	Mon, May 23	1:45-5:00 PDP	42	Р	Electrolysis
Ryan	Chuck	Natl Center for Manf.Sc	Oral	Tues, May 24	4:40 PM ST	17	В	New Matl's & Concepts
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Sachtler	Adriaan	UOP	Oral	Tues, May 24	9:20 AM ST	5	В	Metal Hydrides
Sammells	Anthony	Eltron Res. Inc.	Oral	Tues, May 24	9:45 AM PD	11	А	DOE Fossil Energy
Satcher	Joe	LLNL	Poster	Tues, May 24	6:30-7:30 STP	31	Р	Carbon Materials
				Mon, May 23	4-7 PM			
0 / 1	o ''	DOF	<u> </u>				-	N 14
Satyapal	Sunita	DOE	Oral	Mon, May 23	1:45 PM ST	1	В	NA
Schmura	Eileen	Concurrent Tech. Corp	Poster	Wed, May 25	9:00-12:00 PDP	49	Р	Hydrogen Delivery
		•						, ,
Schneider	Mark	Del. Co.Electric Co-op	Poster	Tues, May 24	9:00-12:00 FCP	17	Р	Stationary Power Systems
Schoenung	Susan	Longitude 122 West, In	Poster	Wed, May 25	1:30-5:00 SAP	1	Р	Safety, Codes & Stans.
•	Viviane	ORNL	Oral	Wed, May 25	8:30 AM FC	26	С	Fuel Processing
Schwartz								5
Schwartz	Joseph	Praxair	Poster	Tues, May 24	1:30-5:00 PDP	3	Р	Distributed Production
Serfass	Patrick	NHA	Poster	Thur, May 26	9:00-12:00 EDP	4	Р	Education
				•				
Shaw	Leon	U of Connecticut	Poster	Wed, May 25	9:00-1:00 STP	51	Р	New Matl's & Concepts
Sherman	Steve	INL	Oral	Wed, May 25	1:40 PM PD	31	Α	DOE Nuclear Energy
								0,
Shimko	Martin	Gas Equip. Engr. Corp.	Poster	Wed, May 25	9:00-12:00 PDP	46	Р	Hydrogen Delivery
Shore	Larry	Engelhard	Oral	Tues, May 24	3:25 PM FC	21	С	Platinum Recycling
	•	U U		-				
Short	Walter	NREL	Oral	Thur, May 26	11:15 AM AN	4	A	Systems Analysis
Sievers	Bob	MTI MicroFuel Cells	Oral	Wed, May 25	11:10 AM FC	32	С	Auxiliary/Portable Power
Simopoulos	George	Delphi	Poster	Tues, May 24	1:30-5:00 FCP	30	Р	Auxiliary/Portable Power
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Simpkins	Erik	Idatech	Oral	Thur, May 26	8:55 AM FC	43	С	Auxiliary/Portable Power
Smalley	Richard	Rice University	Poster	Tues, May 24	6:30-7:30 STP	37	Р	Carbon Materials
Onlancy	Rionara	The onversity	1 00101			01		Carbon Materials
				Mon, May 23	4-7 PM			
Smith	Hamilton	J. Craig Venter Inst.	Poster	Mon, May 23	1:45-5:00 PDP	31	Р	Biological Production
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Smith	Barton	ORNL	Poster	Wed, May 25	9:00-12:00 PDP	51	Р	Hydrogen Delivery
Sneddon	Larry	U of Pennsylvania	Poster	Tues, May 24	6:30-7:30 STP	8	Р	Chemical Hydrides
		· · · · · · · · · · · · · · · · · · ·		-	4-7 PM			, ,
				Mon, May 23				
Sofronis	Petros	U. of Illinois	Poster	Wed, May 25	9:00-12:00 PDP	48	Р	Hydrogen Delivery
Spangler	Lee	Montana State Univ.	Poster	Tues, May 24	1:30-5:00 FCP	1	Р	Membranes & MEAs
Spruill	Mary	NEED	Oral	Thur, May 26	9:15 AM ED	6	Α	Education
Stefanakos	Lee	U. of South FI.	Oral	Tues, May 24	11:40 AM ST	10	В	New Matl's & Concepts
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Stefanakos	Lee	U. of South Fl.	Poster	Wed, May 25	9:00-1:00 STP	2	Р	New Matl's & Concepts
Stevens	Jim	ChevronTexaco	Oral	Thur, May 26	9:20 AM FC	44	С	Fuel Processing
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Stone	Harry J.	Battelle	Oral	Thur, May 26	11:15 AM FC	48	С	Stationary Power Systems
Struzhkin	Viktor	Carnegie Institute	Poster	Wed, May 25	9:00-1:00 STP	48		New Matl's & Concepts
Summers	Bill	SRS			0.00 1.00 011		Р	
			Postar	Mon May 22				DOF Nuclear Energy
Swider-Lyons			Poster	Mon, May 23	1:45-5:00 PDP	45	Ρ	DOE Nuclear Energy
Talu	Karen	NRL	Poster Oral	Mon, May 23 Tues, May 24				DOE Nuclear Energy Catalysts
		NRL	Oral	Tues, May 24	1:45-5:00 PDP 1:15 PM FC	45 16	P C	Catalysts
	Orhan	NRL Cleveland State Un.	Oral Oral	Tues, May 24 Tues, May 24	1:45-5:00 PDP 1:15 PM FC 10:25 AM ST	45 16 7	P C B	Catalysts New Matl's & Concepts
Tamhankar		NRL	Oral	Tues, May 24	1:45-5:00 PDP 1:15 PM FC	45 16	P C	Catalysts
Tamhankar	Orhan Satish	NRL Cleveland State Un. BOC Group, Inc.	Oral Oral Oral	Tues, May 24 Tues, May 24 Tues, May 24	1:45-5:00 PDP 1:15 PM FC 10:25 AM ST 8:30 AM PD	45 16 7 8	P C B A	Catalysts New Matl's & Concepts Distributed Production
Tamhankar Tao	Orhan Satish Greg	NRL Cleveland State Un. BOC Group, Inc. MSRI	Oral Oral Oral Oral	Tues, May 24 Tues, May 24 Tues, May 24 Mon, May 23	1:45-5:00 PDP 1:15 PM FC 10:25 AM ST 8:30 AM PD 2:40 PM PD	45 16 7 8 2	P C B A A	Catalysts New Matl's & Concepts Distributed Production Distributed Production
Tamhankar Tao Taylor	Orhan Satish	NRL Cleveland State Un. BOC Group, Inc. MSRI IdaTech	Oral Oral Oral Oral Oral	Tues, May 24 Tues, May 24 Tues, May 24 Mon, May 23 Thur, May 26	1:45-5:00 PDP 1:15 PM FC 10:25 AM ST 8:30 AM PD 2:40 PM PD 11:35 AM FC	45 16 7 8 2 49	P C A A C	Catalysts New Matl's & Concepts Distributed Production Distributed Production Stationary Power Systems
Tamhankar Tao Taylor	Orhan Satish Greg	NRL Cleveland State Un. BOC Group, Inc. MSRI IdaTech	Oral Oral Oral Oral	Tues, May 24 Tues, May 24 Tues, May 24 Mon, May 23 Thur, May 26	1:45-5:00 PDP 1:15 PM FC 10:25 AM ST 8:30 AM PD 2:40 PM PD 11:35 AM FC	45 16 7 8 2	P C B A A	Catalysts New Matl's & Concepts Distributed Production Distributed Production
Tamhankar Tao Taylor Thompson	Orhan Satish Greg Kyle Levi	NRL Cleveland State Un. BOC Group, Inc. MSRI IdaTech U of Michigan	Oral Oral Oral Oral Oral Poster	Tues, May 24 Tues, May 24 Tues, May 24 Mon, May 23 Thur, May 26 Tues, May 24	1:45-5:00 PDP 1:15 PM FC 10:25 AM ST 8:30 AM PD 2:40 PM PD 11:35 AM FC 9:00-12:00 FCP	45 16 7 8 2 49 14	P C B A C P	Catalysts New Matl's & Concepts Distributed Production Distributed Production Stationary Power Systems Fuel Processing
Tamhankar Tao Taylor Thompson Thompson	Orhan Satish Greg Kyle Levi Robert	NRL Cleveland State Un. BOC Group, Inc. MSRI IdaTech U of Michigan New Concepts Res. Cc	Oral Oral Oral Oral Oral Poster Poster	Tues, May 24 Tues, May 24 Tues, May 24 Mon, May 23 Thur, May 26 Tues, May 24 Wed, May 25	1:45-5:00 PDP 1:15 PM FC 10:25 AM ST 8:30 AM PD 2:40 PM PD 11:35 AM FC 9:00-12:00 FCP 9:00-12:00 PDP	45 16 7 8 2 49 14 47	P C B A A C P P	Catalysts New Matl's & Concepts Distributed Production Distributed Production Stationary Power Systems Fuel Processing Hydrogen Delivery
Tamhankar Tao Taylor Thompson	Orhan Satish Greg Kyle Levi	NRL Cleveland State Un. BOC Group, Inc. MSRI IdaTech U of Michigan	Oral Oral Oral Oral Oral Poster	Tues, May 24 Tues, May 24 Tues, May 24 Mon, May 23 Thur, May 26 Tues, May 24	1:45-5:00 PDP 1:15 PM FC 10:25 AM ST 8:30 AM PD 2:40 PM PD 11:35 AM FC 9:00-12:00 FCP	45 16 7 8 2 49 14	P C B A C P	Catalysts New Matl's & Concepts Distributed Production Distributed Production Stationary Power Systems Fuel Processing
Tamhankar Tao Taylor Thompson Thompson Tidball	Orhan Satish Greg Kyle Levi Robert Rick	NRL Cleveland State Un. BOC Group, Inc. MSRI IdaTech U of Michigan New Concepts Res. Cc Energy & Envr. Analysi	Oral Oral Oral Oral Oral Poster Poster Poster	Tues, May 24 Tues, May 24 Tues, May 24 Mon, May 23 Thur, May 26 Tues, May 24 Wed, May 25 Thur, May 26	1:45-5:00 PDP 1:15 PM FC 10:25 AM ST 8:30 AM PD 2:40 PM PD 11:35 AM FC 9:00-12:00 FCP 9:00-12:00 EDP 9:00-12:00 EDP	45 16 7 8 2 49 14 47 3	РСВААСРР	Catalysts New Matl's & Concepts Distributed Production Distributed Production Stationary Power Systems Fuel Processing Hydrogen Delivery Education
Tamhankar Tao Taylor Thompson Thompson Tidball Tolley	Orhan Satish Greg Kyle Levi Robert Rick George	NRL Cleveland State Un. BOC Group, Inc. MSRI IdaTech U of Michigan New Concepts Res. Cc Energy & Envr. Analysi RCF, Inc.	Oral Oral Oral Oral Oral Poster Poster Poster Poster	Tues, May 24 Tues, May 24 Tues, May 24 Mon, May 23 Thur, May 26 Tues, May 24 Wed, May 25 Thur, May 26 Thur, May 26	1:45-5:00 PDP 1:15 PM FC 10:25 AM ST 8:30 AM PD 2:40 PM PD 11:35 AM FC 9:00-12:00 FCP 9:00-12:00 EDP 9:00-12:00 ANP	45 16 7 8 2 49 14 47 3 4	P C A A C P P P P	Catalysts New Matl's & Concepts Distributed Production Distributed Production Stationary Power Systems Fuel Processing Hydrogen Delivery Education Systems Analysis
Tamhankar Tao Taylor Thompson Thompson Tidball	Orhan Satish Greg Kyle Levi Robert Rick	NRL Cleveland State Un. BOC Group, Inc. MSRI IdaTech U of Michigan New Concepts Res. Cc Energy & Envr. Analysi	Oral Oral Oral Oral Oral Poster Poster Poster	Tues, May 24 Tues, May 24 Tues, May 24 Mon, May 23 Thur, May 26 Tues, May 24 Wed, May 25 Thur, May 26	1:45-5:00 PDP 1:15 PM FC 10:25 AM ST 8:30 AM PD 2:40 PM PD 11:35 AM FC 9:00-12:00 FCP 9:00-12:00 EDP 9:00-12:00 EDP	45 16 7 8 2 49 14 47 3	P C B A C P P B	Catalysts New Matl's & Concepts Distributed Production Distributed Production Stationary Power Systems Fuel Processing Hydrogen Delivery Education
Tamhankar Tao Taylor Thompson Thompson Tidball Tolley Tumas	Orhan Satish Greg Kyle Levi Robert Rick George Bill	NRL Cleveland State Un. BOC Group, Inc. MSRI IdaTech U of Michigan New Concepts Res. Cc Energy & Envr. Analysi RCF, Inc. LANL	Oral Oral Oral Oral Poster Poster Poster Poster Oral	Tues, May 24 Tues, May 24 Tues, May 24 Mon, May 23 Thur, May 26 Tues, May 24 Wed, May 25 Thur, May 26 Thur, May 26 Tues, May 24	1:45-5:00 PDP 1:15 PM FC 10:25 AM ST 8:30 AM PD 2:40 PM PD 11:35 AM FC 9:00-12:00 FCP 9:00-12:00 EDP 9:00-12:00 ANP 1:15 PM ST	45 16 7 8 2 49 14 47 3 4 11	P C B A C P P B	Catalysts New Matl's & Concepts Distributed Production Distributed Production Stationary Power Systems Fuel Processing Hydrogen Delivery Education Systems Analysis Chemical Hydrides
Tamhankar Tao Taylor Thompson Thompson Tidball Tolley	Orhan Satish Greg Kyle Levi Robert Rick George	NRL Cleveland State Un. BOC Group, Inc. MSRI IdaTech U of Michigan New Concepts Res. Cc Energy & Envr. Analysi RCF, Inc.	Oral Oral Oral Oral Oral Poster Poster Poster Poster	Tues, May 24 Tues, May 24 Tues, May 24 Mon, May 23 Thur, May 26 Tues, May 24 Wed, May 25 Thur, May 26 Thur, May 26 Thur, May 26 Tues, May 24	1:45-5:00 PDP 1:15 PM FC 10:25 AM ST 8:30 AM PD 2:40 PM PD 11:35 AM FC 9:00-12:00 FCP 9:00-12:00 ADP 9:00-12:00 ANP 1:15 PM ST 6:30-8:30 STP	45 16 7 8 2 49 14 47 3 4	P C A A C P P P P	Catalysts New Matl's & Concepts Distributed Production Distributed Production Stationary Power Systems Fuel Processing Hydrogen Delivery Education Systems Analysis
Tamhankar Tao Taylor Thompson Thompson Tidball Tolley Tumas Tumas	Orhan Satish Greg Kyle Levi Robert Rick George Bill Bill	NRL Cleveland State Un. BOC Group, Inc. MSRI IdaTech U of Michigan New Concepts Res. Cc Energy & Envr. Analysi RCF, Inc. LANL LANL	Oral Oral Oral Oral Poster Poster Poster Oral Poster	Tues, May 24 Tues, May 24 Tues, May 24 Mon, May 23 Thur, May 26 Tues, May 24 Wed, May 25 Thur, May 26 Thur, May 26 Thur, May 26 Tues, May 24 Tues, May 24 Mon, May 23	1:45-5:00 PDP 1:15 PM FC 10:25 AM ST 8:30 AM PD 2:40 PM PD 11:35 AM FC 9:00-12:00 FCP 9:00-12:00 EDP 9:00-12:00 ANP 1:15 PM ST 6:30-8:30 STP 4-7 PM ST	45 16 7 8 2 49 14 47 3 4 11 60	P C B A A C P P P B P	Catalysts New Matl's & Concepts Distributed Production Distributed Production Stationary Power Systems Fuel Processing Hydrogen Delivery Education Systems Analysis Chemical Hydrides Chemical Hydrides
Tamhankar Tao Taylor Thompson Thompson Tidball Tolley Tumas Tumas	Orhan Satish Greg Kyle Levi Robert Rick George Bill Bill	NRL Cleveland State Un. BOC Group, Inc. MSRI IdaTech U of Michigan New Concepts Res. Cc Energy & Envr. Analysi RCF, Inc. LANL LANL	Oral Oral Oral Oral Poster Poster Poster Oral Poster	Tues, May 24 Tues, May 24 Tues, May 24 Mon, May 23 Thur, May 26 Tues, May 24 Wed, May 25 Thur, May 26 Thur, May 26 Thur, May 26 Tues, May 24 Tues, May 24 Mon, May 23	1:45-5:00 PDP 1:15 PM FC 10:25 AM ST 8:30 AM PD 2:40 PM PD 11:35 AM FC 9:00-12:00 FCP 9:00-12:00 EDP 9:00-12:00 ANP 1:15 PM ST 6:30-8:30 STP 4-7 PM ST	45 16 7 8 2 49 14 47 3 4 11 60	P C B A C P P B	Catalysts New Matl's & Concepts Distributed Production Distributed Production Stationary Power Systems Fuel Processing Hydrogen Delivery Education Systems Analysis Chemical Hydrides Chemical Hydrides
Tamhankar Tao Taylor Thompson Thompson Tidball Tolley Tumas	Orhan Satish Greg Kyle Levi Robert Rick George Bill	NRL Cleveland State Un. BOC Group, Inc. MSRI IdaTech U of Michigan New Concepts Res. Cc Energy & Envr. Analysi RCF, Inc. LANL	Oral Oral Oral Oral Poster Poster Poster Poster Oral	Tues, May 24 Tues, May 24 Tues, May 24 Mon, May 23 Thur, May 26 Tues, May 24 Wed, May 25 Thur, May 26 Thur, May 26 Thur, May 26 Tues, May 24 Tues, May 24 Mon, May 23 Tues, May 24	1:45-5:00 PDP 1:15 PM FC 10:25 AM ST 8:30 AM PD 2:40 PM PD 11:35 AM FC 9:00-12:00 FCP 9:00-12:00 EDP 9:00-12:00 ANP 1:15 PM ST 6:30-8:30 STP 4-7 PM 6:30-8:30 STP	45 16 7 8 2 49 14 47 3 4 11	P C B A A C P P P B P	Catalysts New Matl's & Concepts Distributed Production Distributed Production Stationary Power Systems Fuel Processing Hydrogen Delivery Education Systems Analysis Chemical Hydrides
Tamhankar Tao Taylor Thompson Thompson Tidball Tolley Tumas Tumas Tumas	Orhan Satish Greg Kyle Levi Robert Rick George Bill Bill	NRL Cleveland State Un. BOC Group, Inc. MSRI IdaTech U of Michigan New Concepts Res. Cc Energy & Envr. Analysi RCF, Inc. LANL LANL	Oral Oral Oral Oral Oral Poster Poster Poster Oral Poster Poster	Tues, May 24 Tues, May 24 Tues, May 24 Mon, May 23 Thur, May 26 Tues, May 24 Wed, May 25 Thur, May 26 Thur, May 26 Thur, May 26 Tues, May 24 Mon, May 23 Tues, May 24 Mon, May 23	1:45-5:00 PDP 1:15 PM FC 10:25 AM ST 8:30 AM PD 2:40 PM PD 11:35 AM FC 9:00-12:00 FCP 9:00-12:00 FCP 9:00-12:00 ANP 1:15 PM ST 6:30-8:30 STP 4-7 PM 6:30-8:30 STP 4-7 PM 6:30-8:30 STP 4-7 PM 6:30-8:30 STP	45 16 7 8 2 49 14 47 3 4 11 60 61	РСВААСРРРВР	Catalysts New Matl's & Concepts Distributed Production Distributed Production Stationary Power Systems Fuel Processing Hydrogen Delivery Education Systems Analysis Chemical Hydrides Chemical Hydrides Chemical Hydrides
Tamhankar Tao Taylor Thompson Thompson Tidball Tolley Tumas Tumas	Orhan Satish Greg Kyle Levi Robert Rick George Bill Bill	NRL Cleveland State Un. BOC Group, Inc. MSRI IdaTech U of Michigan New Concepts Res. Cc Energy & Envr. Analysi RCF, Inc. LANL LANL	Oral Oral Oral Oral Poster Poster Poster Oral Poster	Tues, May 24 Tues, May 24 Tues, May 24 Mon, May 23 Thur, May 26 Tues, May 24 Wed, May 25 Thur, May 26 Thur, May 26 Thur, May 26 Tues, May 24 Tues, May 24 Mon, May 23 Tues, May 24	1:45-5:00 PDP 1:15 PM FC 10:25 AM ST 8:30 AM PD 2:40 PM PD 11:35 AM FC 9:00-12:00 FCP 9:00-12:00 EDP 9:00-12:00 ANP 1:15 PM ST 6:30-8:30 STP 4-7 PM 6:30-8:30 STP	45 16 7 8 2 49 14 47 3 4 11 60	P C B A A C P P P B P	Catalysts New Matl's & Concepts Distributed Production Distributed Production Stationary Power Systems Fuel Processing Hydrogen Delivery Education Systems Analysis Chemical Hydrides Chemical Hydrides
Tamhankar Tao Taylor Thompson Tidball Tolley Tumas Tumas Tumas Tumas	Orhan Satish Greg Kyle Levi Robert Rick George Bill Bill Bill	NRL Cleveland State Un. BOC Group, Inc. MSRI IdaTech U of Michigan New Concepts Res. Cc Energy & Envr. Analysi RCF, Inc. LANL LANL LANL NREL	Oral Oral Oral Oral Poster Poster Poster Oral Poster Poster Poster	Tues, May 24 Tues, May 24 Tues, May 24 Mon, May 23 Thur, May 26 Tues, May 24 Wed, May 25 Thur, May 26 Thur, May 26 Thur, May 26 Tues, May 24 Mon, May 23 Tues, May 24 Mon, May 23 Tues, May 24	1:45-5:00 PDP 1:15 PM FC 10:25 AM ST 8:30 AM PD 2:40 PM PD 11:35 AM FC 9:00-12:00 FCP 9:00-12:00 FDP 9:00-12:00 ANP 1:15 PM ST 6:30-8:30 STP 4-7 PM 6:30-8:30 STP 9:00-12:00 FCP	45 16 7 8 2 49 14 47 3 4 11 60 61 3	РСВААСРРРВР Р	Catalysts New Matl's & Concepts Distributed Production Distributed Production Stationary Power Systems Fuel Processing Hydrogen Delivery Education Systems Analysis Chemical Hydrides Chemical Hydrides Chemical Hydrides Membranes & MEAs
Tamhankar Tao Taylor Thompson Tidball Tolley Tumas Tumas Tumas Tumas	Orhan Satish Greg Kyle Levi Robert Rick George Bill Bill Bill John John	NRL Cleveland State Un. BOC Group, Inc. MSRI IdaTech U of Michigan New Concepts Res. Cc Energy & Envr. Analysi RCF, Inc. LANL LANL LANL NREL NREL	Oral Oral Oral Oral Poster Poster Poster Oral Poster Poster Poster	Tues, May 24 Tues, May 24 Tues, May 24 Mon, May 23 Thur, May 26 Tues, May 24 Wed, May 25 Thur, May 26 Thur, May 26 Tues, May 24 Mon, May 23 Tues, May 24 Mon, May 23 Tues, May 24 Mon, May 23	1:45-5:00 PDP 1:15 PM FC 10:25 AM ST 8:30 AM PD 2:40 PM PD 11:35 AM FC 9:00-12:00 FCP 9:00-12:00 FDP 9:00-12:00 ANP 1:15 PM ST 6:30-8:30 STP 4-7 PM 6:30-8:30 STP 4-7 PM 9:00-12:00 FCP 9:00-12:00 FCP 1:45-5:00 FCP	45 16 7 8 2 49 14 47 3 4 11 60 61 3 12	РСВААСРРРВР Р РР	Catalysts New Matl's & Concepts Distributed Production Distributed Production Stationary Power Systems Fuel Processing Hydrogen Delivery Education Systems Analysis Chemical Hydrides Chemical Hydrides Chemical Hydrides Membranes & MEAs Bipolar Plates
Tamhankar Tao Taylor Thompson Tidball Tolley Tumas Tumas Tumas Tumas	Orhan Satish Greg Kyle Levi Robert Rick George Bill Bill Bill	NRL Cleveland State Un. BOC Group, Inc. MSRI IdaTech U of Michigan New Concepts Res. Cc Energy & Envr. Analysi RCF, Inc. LANL LANL LANL NREL NREL NREL	Oral Oral Oral Oral Poster Poster Poster Oral Poster Poster Poster	Tues, May 24 Tues, May 24 Tues, May 24 Mon, May 23 Thur, May 26 Tues, May 24 Wed, May 25 Thur, May 26 Thur, May 26 Tues, May 24 Mon, May 23 Tues, May 24 Mon, May 23 Tues, May 24 Mon, May 23 Tues, May 24	1:45-5:00 PDP 1:15 PM FC 10:25 AM ST 8:30 AM PD 2:40 PM PD 11:35 AM FC 9:00-12:00 FCP 9:00-12:00 FDP 9:00-12:00 ANP 1:15 PM ST 6:30-8:30 STP 4-7 PM 6:30-8:30 STP 9:00-12:00 FCP	45 16 7 8 2 49 14 47 3 4 11 60 61 3	РСВААСРРРВР Р	Catalysts New Matl's & Concepts Distributed Production Distributed Production Stationary Power Systems Fuel Processing Hydrogen Delivery Education Systems Analysis Chemical Hydrides Chemical Hydrides Chemical Hydrides Membranes & MEAs
Tamhankar Tao Taylor Thompson Tidball Tolley Tumas Tumas Tumas Tumas Turner Turner Turner Turner	Orhan Satish Greg Kyle Levi Robert Rick George Bill Bill Bill John John John	NRL Cleveland State Un. BOC Group, Inc. MSRI IdaTech U of Michigan New Concepts Res. Cc Energy & Envr. Analysi RCF, Inc. LANL LANL LANL NREL NREL NREL	Oral Oral Oral Oral Poster Poster Oral Poster Poster Poster Poster Poster Poster Oral	Tues, May 24 Tues, May 24 Tues, May 24 Mon, May 23 Thur, May 26 Tues, May 24 Wed, May 25 Thur, May 26 Thur, May 26 Tues, May 24 Mon, May 23 Tues, May 24 Mon, May 23 Tues, May 24 Mon, May 23 Tues, May 24	1:45-5:00 PDP 1:15 PM FC 10:25 AM ST 8:30 AM PD 2:40 PM PD 11:35 AM FC 9:00-12:00 FCP 9:00-12:00 EDP 9:00-12:00 ANP 1:15 PM ST 6:30-8:30 STP 4-7 PM 6:30-8:30 STP 9:00-12:00 FCP 1:45-5:00 FCP	45 16 7 8 2 49 14 47 3 4 11 60 61 3 12 21	РСВААСРРРВР Р РРА	Catalysts New Matl's & Concepts Distributed Production Distributed Production Stationary Power Systems Fuel Processing Hydrogen Delivery Education Systems Analysis Chemical Hydrides Chemical Hydrides Chemical Hydrides Membranes & MEAs Bipolar Plates Photoelectrochemical
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14/	Mishaal	A.N.II	Dester	Thur May 00	0.00 40.00		-	-	Quatana Analusia
Wang	Michael	ANL	Poster	Thur, May 26	9:00-12:00		7	Р	Systems Analysis
Wang	Jim	Sandia Nat. Labs	Oral	Mon, May 23	2:25 PM	ST	2	В	Metal Hydrides
Wang	Jim	Sandia Nat. Labs	Poster	Tues, May 24 Mon, May 23	6:30-8:30 4-7 PM	STP	15	Р	Metal Hydrides
Wang	Jim	Sandia Nat. Labs	Poster	Tues, May 24	6:30-8:30	STP	62	Р	Metal Hydrides
wang	0111	Gandia Nat. Labs	1 03(6)	Mon, May 23	4-7 PM	011	02	•	Wetar Hydrides
Wegrzyn	Jim	Brookhaven NL	Poster	Tues, May 24	6:30-7:30	STP	16	Р	Metal Hydrides
wegizyn	5111	DIOOKIIAVEITINL	F USIEI	Mon, May 23	4-7 PM	OIF	10	Г	Metal Hydrides
Weidner	John	U of S. Carolina	Poster	Wed, May 25	1:30-5:00	PDP	56	Р	Hi-Temp Thermochemical
Weil	Scott	PNNL	Poster	Mon, May 23	1:45-5:00	FCP	13	P	Bipolar Plates
Weimer	Alan	U of Colorado	Poster	Mon, May 23	1:45-5:00	PDP	44	P	Hi-Temp Thermochemical
Weiner	Steven	PNNL	Oral	Thur, May 26	11:30 AM	SA	6	В	Safety, Codes & Stans.
Weisberg	Andrew	LLNL	Poster	Wed, May 25	9:00-1:00	STP	1	P	New Matl's & Concepts
Wells	Brian	Polyfuel, Inc.	Oral	Wed, May 25 Wed, May 25	11:35 AM	FC	33	Ċ	Auxiliary/Portable Power
White	Ralph	U. of S. Carolina	Oral	Tues, May 24	11:15 AM	ST	9	В	New Matl's & Concepts
Whyatt	Greg	PNNL	Poster	Tues, May 24	9:00-12:00	-	26	P	Fuel Processing
Williamson	Paul	U. of Montana	Oral	Thur, May 24	8:30 AM	ED	4	A	Education
Wilson	Mahlon	LANL	Oral	Mon, May 23	3:55 PM	FC	5	ĉ	MEAs
Wilson	Dane	ORNL	Poster	Wed, May 25	1:30-5:00	PDP	20	P	DOE Nuclear Energy
Wipke	Keith	NREL	Oral	Wed, May 25 Wed, May 25	2:50 PM	TV	20 7	Б	Systems Analysis
Woodbury	Neal	Arizona State U.	Poster	Mon, May 23	1:45-5:00	PDP	38	P	Photoelectrochemical
Wu		Millennium Cell	Oral	Tues, May 24		ST	30 12	Б	
Wu	Ying	Millennium Cell	Poster		2:15 PM	STP	12	P	Chemical Hydrides
vvu	Ying	Millennium Cell	Poster	Tues, May 24 Mon, May 23	6:30-7:30	51P	10	Р	Chemical Hydrides
10/	Vice	LL of NL Constinue	Destar	· ·	4-7 PM	отр	4.4	Р	Carbon Matariala
Wu	Yue	U of N. Carolina	Poster	Tues, May 24	6:30-7:30	STP	41	Р	Carbon Materials
Viene	Vice Denn	Internetiv Com	Destar	Mon, May 23	4-7 PM	отр	12	Р	Chamical Lludrides
Xiang	Xiao-Dong	Internatix Corp.	Poster	Tues, May 24	6:30-7:30	STP	12	Р	Chemical Hydrides
Viene	Vice Denn	Internetiv Com	Destar	Mon, May 23	4-7 PM	отр	20	Р	Matal I hydridaa
Xiang	Xiao-Dong	Internatix Corp.	Poster	Tues, May 24	7:30-8:30	STP	29	Р	Metal Hydrides
V	Linnei	Midulant Onto ale atrania	Destar	Mon, May 23	4-7 PM		25	Р	Dhata ala atra ah a mia al
Xu	Liwei	Midwest Optoelectronic	Poster	Mon, May 23	1:45-5:00	PDP	35	P P	Photoelectrochemical
Yaghi	Omar	U of Michigan	Poster	Tues, May 24	6:30-7:30	STP	39	Р	Carbon Materials
Marsh:	0		Destan	Mon, May 23	4-7 PM	OTD	50	-	New Mettle 9 Oceaning
Yaghi	Omar	U of Michigan	Poster	Wed, May 25	9:00-1:00	STP	52	Р	New Matl's & Concepts
Yakobson	Boris	Rice University	Poster	Tues, May 24	7:30-8:30	STP	38	Р	Carbon Materials
	Dalah		Destan	Mon, May 23	4-7 PM	070	40	-	Oorthorn Materials
Yang	Ralph	U of Michigan	Poster	Tues, May 24	7:30-8:30	STP	40	Р	Carbon Materials
	D		D (Mon, May 23	4-7 PM		4.5	_	E 18 .
Yee	David	Catalytica	Poster	Tues, May 24	9:00-12:00		15	P	Fuel Processing
Zawodzinski	Tom	Case West. Res. Un.	Oral	Mon, May 23	4:20 PM	FC	6	С	Membranes & MEAs
Zelenay	Piotr	LANL	Oral	Wed, May 25	1:15 PM	FC	34	С	Auxiliary/Portable Power
Zhao	JC.	GE	Poster	Tues, May 24	6:30-7:30	STP	27	Р	Metal Hydrides
7: -!	Devel	Orwania Di All	Devi	Mon, May 23	4-7 PM	075	00	-	
Zidan	Ragaiy	Savannah River NL	Poster	Tues, May 24	7:30-8:30	STP	20	Р	Metal Hydrides
Zidaa	Desein	Covernal Diver M	Destar	Mon, May 23	4-7 PM	отр	50	Р	Matal I haridaa
Zidan	Ragaiy	Savannah River NL	Poster	Wed, May 25	9:00-1:00	512	58	Р	Metal Hydrides