

**14<sup>th</sup> International Conference on Condensed Matter Nuclear Science**  
**14<sup>th</sup> International Conference of Cold Fusion**

Hyatt Regency on Capitol Hill  
 Washington DC

**Sunday 10 August 2008**

1500-1900	Registration	Ballroom Foyer (Lower Level)
1900-2100	Reception	Columbia Ballroom (Lower Level)

**Monday 11 August 2008**

0730-0830	Daily: Registration in the Ballroom Foyer (Lower Level) and Continental Breakfast in the Hall of Battles (Lower Level)	
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**Opening Session**  
**Ballroom (Lower Level)**

			Number
0830-1000	Llewellyn King	Keynote Address	1
	D. J. Nagel	Problems, Progress and Prospects	2
	M. E. Melich	Conference Preview	3

1000-1030	Morning Break in the Hall of Battles (Lower Level)	
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**Heat Results**  
 Chairmen: M. Srinivasan and Y. Kim

1030-1100	D. Cravens and D. Letts	The Enabling Criteria of Electrochemical Heat: Beyond Reasonable Doubt	4
1100-1130	M. Swartz	Excess Power Gain and Tardive Thermal Power Generation using High Impedance and Co-depositional Phusor™ Type LANR Devices	5
1130-1200	S. Lesin, <i>et al.</i>	Ultrasonically-Excited Electrolysis Experiments at Energetics Technologies	6

1200-1330	Lunch	Congressional Room (Lobby Level)
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**Measuring Heat**  
 Moderator: B. R. Breed

1330-1500	J. Dufour, <i>et al.</i>	Ice Calorimetry	7
	M. Eisner	Heat Flow Calorimetry	8
	M. C. H. McKubre	Mass Flow Calorimetry	9
	M. H. Miles and M. Fleischmann	Isoperibolic Calorimetry	10
	E. Storms	Seebeck Calorimetry	11

1500-1530	Afternoon Break in the Hall of Battles (Lower Level)	
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<b>Materials</b>			
Chairmen: A. Takahashi and S. Chubb			
1530-1600	V. Violante, <i>et al.</i>	On the Correlation of PdD Alloy Material Properties with the Occurrence of Excess Power	12
1600-1620	I. Parchamazad, <i>et al.</i>	Investigations of Nanoparticle Palladium/Deuterium Systems in Zeolites	13
1620-1640	J. Marwan	Study of the Nanostructured Palladium Hydride System	14
1640-1700	T. Nohmi, <i>et al.</i>	Basic research on condensed matter nuclear reaction using Pd powders charged with high density deuterium	15
<b>Poster Session and Book Sales</b>			
1700-1800	Posters	Lexington and Concord Rooms	
1700-1800	Book Sales	Reception Desk in the Ballroom Foyer (Lower Level)	
<b>Tuesday 12 August 2008</b>			
<b>Gas and Fast Loading</b>			
Chairmen: K. P. Sinha and D. Cravens			
0830-0900	J.-P. Biberian	Cold Fusion by Gas Loading: A review	16
0900-0930	F. Celani, <i>et al.</i>	Deuteron electromigration in thin Pd wires coated with nano-particles: evidence for ultra-fast Deuterium loading and anomalous, large thermal effects	17
0930-1000	Morning Break in the Hall of Battles (Lower Level)		
<b>Honoring Yoshiaki Arata</b>			
Organizer: T. A. Chubb			
1000-1030	T. A. Chubb	In Honor of Yoshiaki Arata	18
1030-1100	Y. Arata and Y.-C. Zhang	"Solid Fusion" Reactor with Zero Input Energy	19
<b>Honoring Stanislaus Szpak</b>			
Organizer: F. E. Gordon			
1100-1200	S. Szpak, P. Mosier-Boss, F. Gordon, M. Miles and L. Forsley	LENR Research Using Co-Deposition	20
1200-1330	Lunch	Congressional Room (Lobby Level)	

<b>Particle Measurements</b>			
Chairmen: X. Z. Li and R. E. Smith			
1330-1400	A. G. Lipson, <i>et al.</i>	Charged Particle Emission During Electron Beam Excitation of Deuterium Subsystem in the Pd and Ti-Deuteride Targets	21
1400-1430	E. Storms and B. Scanlan	Detection of Radiation Emitted from LENR	22
1430-1500	R. Oriani	Reproducible Evidence for the Generation of Nuclear Particles During Electrolysis	23
1500-1530	Afternoon Break in the Hall of Battles (Lower Level)		
<b>Challenges</b>			
Chairmen: Y. Iwamura and E. Storms			
1530-1600	M.C.H. McKubre, <i>et al.</i>	The Importance of Replication	24
1600-1630	Y. Toriyabe and J. Kasagi	Development of New Detector System for Charged Particle Emission	25
1630-1700	D. Kidwell	Considerations for Ultra-Trace Analysis of Metals in a Palladium Matrix	26
<b>Poster Session and Book Sales</b>			
1700-1800	Posters	Lexington and Concord Rooms	
1700-1800	Book Sales	Reception Desk in the Ballroom Foyer (Lower Level)	
1800-2000	<b>Annual General Meeting of the ISCMNS in the Ballroom (Lower Level)</b>		
<b>Wednesday 13 August 2008</b>			
<b>Transmutations</b>			
Chairmen: A. Kornilova and V. Vysotskii			
0830-0900	Y. Iwamura, <i>et al.</i>	Transmutation Reactions Induced by D <sub>2</sub> Gas Permeation through Pd Complexes (Pd/CaO/Pd)	27
0900-0920	T. Yamaguchi, <i>et al.</i>	Investigation of Nuclear Transmutation Using Multilayered CaO/X/Pd Samples Under Deuterium Permeation	28
0920-0940	T. Hioki, <i>et al.</i>	Influence of Deuterium Gas Permeation on Surface Elemental Change of Ion-Implanted Pd	29
0940-1000	J. Dash and Q. Wang	Elemental Mapping on the Surfaces of Palladium Cathodes after Electrolysis	30
1000-1030	Morning Break in the Hall of Battles (Lower Level)		

<b>Country Histories</b>			
Chairmen: W. Collis and T. Passell			
1030-1045	X. Z. Li	China - Condensed Matter Nuclear Science Research in China	31
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1100-1115	M. Srinivasan	India - History of Cold Fusion Research in India	33
1115-1130	F. Scaramuzzi	Italy - The History of Cold Fusion in Italy 1989-2008	34
1130-1145	J. Kasagi and Y. Iwamura	Japan - Country History on Japanese Work on Cold Fusion: Towards further development of Condensed Matter Nuclear Science	35
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	Yu. Bazhutov	Role of Russian Scientists in CMNS – Conferences 1991-2007	37
1230	Depart for Tour with Box Lunches on the Bus		
About 1330	Arrive at the Udvar-Hazy Center of the Smithsonian Air and Space Museum		
1630	Depart from the Udvar-Hazy Center of the Smithsonian Air and Space Museum		
About 1730	Arrive at the Hyatt Regency Hotel on Capitol Hill		
1900	<b>Conference Banquet and Award Ceremony in the Regency Ballroom (Lower Level)</b>		
<b>Thursday 14 August 2008</b>			
<b>Theory</b>			
Chairmen: V. Violante and A. Imam			
0830-0900	P. L. Hagelstein, et al.	Physical Mechanisms in Theories of Condensed Matter Nuclear Science	38
0900-0915	X. Z. Li, <i>et al.</i>	Exploring a Self-Sustaining Heater without Contamination	39
0915-0930	Y. E. Kim	Theory of Low-Energy Deuterium Fusion in Nano-Scale Metal Particles	40
0930-0945	S. R. Chubb	Resonant Electromagnetic Dynamics Explains the Fleischmann-Pons Effect	41
0945-1000	M. Swartz	Optimal Operating Points in Active, Loaded Palladium Linked to Three Distinct Physical Regions	42
1000-1030	Morning Break in the Hall of Battles (Lower Level)		
<b>Beam Probe Experiments</b>			
Chairmen: I. Savvatimova and J. Dash			
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1130-1200	K. Czerski, <i>et al.</i>	The D-D threshold resonance and enhanced electron screening	45
1200-1330	Lunch	Congressional Room (Lobby Level)	

<b>Theory</b>			
Chairmen: J. Dufour and M. H. Miles			
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1345-1400	A. Takahashi	Dynamic Mechanism of TSC Condensation Motion	47
1400-1415	R. W. Bass and M. Swartz	Empirical System Identification (ESID) and Optimal Control of Lattice-Assisted Nuclear Reaction (LANR) Devices	48
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Chairmen: T. Zilov and M. B. Miller			
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1640-1700	M. Swartz, <i>et al.</i>	Non-Thermal Near-IR Emission Linked with Excess Power Gain in High Impedance and Co-deposition Phusor™ Type LANR Devices	55
<b>Poster Session and Book Sales</b>			
1700-1800	Posters	Lexington and Concord Rooms	
1700-1800	Book Sales	Reception Desk in the Ballroom Foyer (Lower Level)	
<b>Friday 15 August 2008</b>			
<b>Experimental Reports</b>			
Chairmen: J. Kasagi and D. Letts			
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1100-1130	Panel	Experimental Design	
1130-1200	Panel	Realizing the Promise	
1200-1330 Lunch Regency Ballroom (Lower Level)			
<b>Workshop on Transmutations in the Valley Forge Room (Lower Level) Organized and Chaired by George Miley</b>			
1330-1350	G. H. Miley	Introduction and Brief Overview of the Field	
1350-1430		Short Presentations & Discussion of Prior Experiments	
1430-1445 Afternoon Break in the Hall of Battles (Lower Level)			
1445-1525		Short Presentations & Discussion of Theory	
1525-1605	Panel	Discussion of Key Issues for Experiments and Theory, and Future Directions	
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