

**14th International Conference on Condensed Matter Nuclear Science
14th International Conference of Cold Fusion**

Draft as of 29 July 08

Hyatt Regency on Capitol Hill
Washington DC

Sunday 10 August 2008

1500-1700	Registration	Ballroom Foyer (Lower Level)
1700-2100	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)	
-----------	--	--

**Opening Session
Ballroom (Lower Level)**

0830-0900	D. J. Nagel	Welcome and Perspective	
0900-0930	G. Peter Nanos (Invited)	Keynote Address: "The Fleischmann-Pons Effect: Evidence and Importance"	
0930-1000	M. E. Melich	Conference Preview	

1000-1030	Morning Break in the Hall of Battles (Lower Level)	
-----------	--	--

**Heat Results
Chairmen: M. Srinivasan and Y. Kim**

1030-1100	D. Letts	The Enabling Criteria of Electrochemical Heat: Beyond Reasonable Doubt	
1100-1130	M. Swartz	Excess Power Gain and Tardive Thermal Power Generation using High Impedance and Codepositional Phusor™ Type LANR Devices	
1130-1200	S. Lesin	Ultrasonically-Excited Electrolysis Experiments at Energetics Technologies	

1200-1330	Lunch	Congressional Room (Lobby Level)
-----------	-------	----------------------------------

**Measuring Heat Panel
Moderator: Ben Breed**

1330-1500	J. Dufour, M. Eisner, M. C. H. McKubre, M. H. Miles & E. Storms	Ice Calorimetry, Heat Flow Calorimetry, Flow Calorimetry, Isoperibolic Calorimetry and Seebeck Calorimetry	
-----------	--	--	--

1500-1530	Afternoon Break in the Hall of Battles (Lower Level)	
Materials		
Chairmen: A. Takashi and S. Chubb		
1530-1600	V. Violante	On the Correlation of PdD Alloy Material Properties with the Occurrence of Excess Power
1600-1620	I. Parchamazad, J. R. Alston and M. H. Miles	Investigations of Nanoparticle Palladium/Deuterium Systems in Zeolites
1620-1640	M. H. Miles	Review of Fleischmann-Pons Effects Using Palladium-Boron Cathodes
1640-1700	T. Nohmi	Basic research on condensed matter nuclear reaction using Pd powders charged with high density deuterium
Poster Session and Book Sales		
1700-1800	Posters	Lexington and Concord Rooms. Papers are listed on page XX
1700-1800	Book Sales	Reception Desk in the Ballroom Foyer (Lower Level)
Tuesday 12 August 2008		
Challenges		
Chairmen: Y. Iwamura and E. Storms		
0830-0900	M. C. H. McKubre	Reproducibility
0900-0930	Y. Toriyabe	Development of New Detector System for Charged Particle Emission
0930-1000	P. L. Hagelstein and M. E. Melich	Physical Mechanisms in Theories of Condensed Matter Nuclear Science
1000-1030	Morning Break in the Hall of Battles (Lower Level)	
Particle Measurements		
Chairmen: X. Z. Li and R. E. Smith		
0830-0900	A. G. Lipson	Charged Particle Emission During Electron Beam Excitation of Deuterium Subsystem in the Pd and Ti- Deuteride Targets
0900-0930	E. Storms	Detection of Radiation Emitted from LENR
0930-1000	R. Oriani	Reproducible Evidence for the Generation of Nuclear Particles During Electrolysis
1200-1330	Lunch	Congressional Room (Lobby Level)
Honoring Yoshiaki Arata		
Organizer: T. Chubb		
1330-1400	T. Chubb	Review of Results from Arata and Zhang
1400-1430	Y. Arata	Cold Fusion Reactor

Honoring Stanislaus Szpak			
Organizer: F. Gordon			
1430-1530	F. Gordon, M. Miles, P. Boss and L. Forsley	LENR Research using Co-Deposition	
1530-1600	Afternoon Break in the Hall of Battles (Lower Level)		
Gas and Fast Loading			
Chairmen: K. P. Sinha and D. Cravens			
1600-1630	J. P. Biberian	Cold Fusion by Gas Loading: A review	
1630-1700	F. Celani	Deuteron electromigration in thin Pd wires coated with nano-particles: evidence for ultra-fast Deuterium loading and anomalous, large thermal effects	
Poster Session and Book Sales			
1700-1800	Posters	Lexington and Concord Rooms. Papers are listed on page YY	
1700-1800	Book Sales	Reception Desk in the Ballroom Foyer (Lower Level)	
1800-2000	Annual General Meeting of the ISCMNS in the XXXX Room		
Wednesday 13 August 2008			
Transmutations			
Chairmen: A. Kornilova and V. Vysotskii			
0830-0900	Y. Iwamura	Transmutation Reactions Induced by D ₂ Gas Permeation through Pd Complexes (Pd/CaO/Pd)	
0900-0920	T. Yamaguchi	Investigation of Nuclear Transmutation Using Multilayered CaO/X/Pd Samples Under Deuterium Permeation	
0920-0940	T. Hioki	Influence of Deuterium Gas Permeation on Surface Elemental Change of Ion-Implanted Pd	
0940-1000	J. Dash	Elemental Mapping on the Surfaces of Palladium Cathodes after Electrolysis	
1000-1030	Morning Break in the Hall of Battles (Lower Level)		
Country Histories			
Chairmen: W. Collis and T. Passell			
1030-1045	X. Z. Li	China - Condensed Matter Nuclear Science Research in China	
1045-1100	J.-P. Biberian	France - Cold Fusion in France	
1100-1115	M. Srinivasan	India - History of Cold Fusion Research in India	
1115-1130	F. Scaramuzzi	Italy - The History of Cold Fusion in Italy 1989-2008	

1130-1145	J. Kasagi	Japan - Country History on Japanese Work on Cold Fusion: Towards further development of Condensed Matter Nuclear Science	
1145-1200	I. Chernov and A. Lipson	Russia - Status of Research on Low Energy Nuclear Reactions in Non-Equilibrium Condensed Matter in Russia Based on Publications in Reviewed Journals	
1230	Depart for Tour by Bus with Box Lunches		
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	Conference Banquet and Award Ceremony in the Ball Room (Lower Level)		
Thursday 14 August 2008			
Theory Chairmen: V. Violante and A. Imam			
0830-0900	X. Z. Li	Exploring a Self-Sustaining Heater without Contamination	
0900-0915	Y. Kim	Theory of Low-Energy Deuterium Fusion in Nano-Scale Metal Particles	
0915-0930	K. P. Sinha	A theoretical model for enhanced fusion reaction in metal deuterides in the solid matrix	
0930-0945	S. Chubb	Resonant Electromagnetic Dynamics Explains the Fleischmann-Pons Effect	
0945-1000	M. Swartz	Analysis of the "Superwave-as-a-Transitory-Optimal Operating Point" Hypothesis	
1000-1030	Morning Break in the Hall of Battles (Lower Level)		
Beam Probe Experiments Chairmen: I. Savvatimova and J. Dash			
1030-1100	J. Kasagi	Screening Potential for Nuclear Reactions in Condensed Matter	
1100-1130	A. Huke	Accelerator measurements of the enhanced electron screening effect in d+d reactions with UHV conditions	
1130-1200	K. Czerski	The D-D threshold resonance and enhanced electron screening	
1200-1330	Lunch	Congressional Room (Lobby Level)	
Theory Chairmen: J. Dufour and M. H. Miles			
1330-1345	P. L. Hagelstein	Excitation transfer and energy exchange processes for modeling the Fleischmann-Pons excess heat effect	
1345-1400	A. Takahashi	Dynamic Mechanism of TSC Condensation Motion	
1400-1415	R. Bass and M. Swartz	Empirical System Identification (ESID) and Optimal Control of Lattice-Assisted Nuclear Reactor	

1415-1430	A. Marmigi	The SHEEN Project: Theoretical Model on the hydrogen dynamics in CMNS experiments	
1430-1445	R. Kühne	Predictions of the Extended Micro Hot Fusion Scenario	
1445-1500	D. Alexandrov	Pairing Interactions between Positive Nuclei Incorporated in Solid Structures	
1500-1530 Afternoon Break in the Hall of Battles (Lower Level)			
Materials and Optical Measurements Chairmen: T. Zilov and M. B. Miller			
1530-1600	E. Castagna	Metallurgical characterization of Pd electrodes employed in calorimetric experiments under electrochemical deuterium loading	
1600-1620	F. Sarto	Electrode Surface Morphology Characterization by Atomic Force Microscopy	
1620-1640	K. Tsuchiya	Observation of Optical Phonon in Hydrogen Storage Pd Using Raman Spectroscopy	
1640-1700	M. Swartz	Non-Thermal Near-IR Emission Linked with Excess Power Gain in High Impedance and Codeposition Phusor™ Type LANR Devices	
Poster Session and Book Sales			
1700-1800	Posters	Lexington and Concord Rooms. Papers are listed on page ZZ	
1700-1800	Book Sales	Reception Desk in the Ballroom Foyer (Lower Level)	
Friday 15 August 2008			
Experimental Reports Chairmen: J. Kasagi and D. Letts			
0830-0845	A. B. Karabut	Electric and Heat Measurements in High Voltage Electrolysis Cell Experiments	
0845-0900	J. Tian	Excess Heat Triggering by Nd:NYW Laser in a D/Pd Gas-Loading System	
0900-0915	T. Mizuno	Heat Generation during Hydrogenation of Carbon (Phenanthrene)	
0915-0930	R. Stringham	Bubble Driven Fusion	
0930-0945	A. Kornilova and V. Vysotskii	Investigation of Radiation Effects at Bubble Cavitation in Running Liquid	
0945-1015 Morning Break in the Hall of Battles (Lower Level)			
Conference Summary and Panel Discussions Chairmen: J.-P. Biberian and M. C. H. McKubre			
1015-1100	Conference Summary	M. E. Melich and T. Passell	
1100-1130	Panel	Experimental Design	
1130-1200	Panel	Realizing the Promise	

1200	End of Conference Sessions		
1230-1330	Lunch	Regency A Room (XXXX Level)	
Workshop on Transmutations in the XXX Room Organized and Chaired by George Miley			
1330-1350	G. 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	
1605-1645	Panel	Discussion of Scientific Implications and Potential Commercial Applications	
1645-1700		Discussion and Summary Remarks.	
Posters: Monday 11 August 2008 1700-1800 Lexington & Concord Rooms			
D. Letts and D. Cravens	Internet Video Demonstration of Operating Cells		
M. Swartz	Electrical Breakeven from LANR Phusor Device Systems: Relative Limitations of Thermal Loss in Feedback Loop		
I. Savvatimova	Initiation of the Processes of Nuclear Decay		
W. T. Williams	Auger and Mass Spectroscopy of anomalous Ag concentrations on electrolyzed Pd		
J. Marwan	Study of the Nanostructured Palladium Hydride System		
M. B. Miller	Phase Properties of Sonoluminescence and a Possibility of Self-Reproduced Nuclear Fusion during Cavitation		
A. Karabut	Research into Energy Spectrum of X-Ray Emission from Solid Cathode Medium During the High Current Glow Discharge Operation and after the Glow Discharge Current Switch Off		
J. Dufour	An experimental device, built to test the hypothesis of "pico-chemistry" (chemistry at picometer distance) – Implications in the LENR field		
W.-S. Zhang	Construction of a Seebeck Envelope Calorimeter and Reproducibility of Excess Heat		
L. Kowalski	Nuclear or not nuclear, how to decide?		
Posters: Tuesday 12 August 2008 1700-1800 Lexington & Concord Rooms			
C. Fou	Investigation of Deuteron-Deuteron Cold Fusion in a Cavity		
Y. Ou and F. Liu	Combustible Substances Showing Organic Properties from Water		
D. Chung	Gas Generation in Glow Discharge Experiment		
F. David and J. Giles	Self-Polarisation of Fusion Diodes: From Excess Energy to Energy		

E. Lewis	Survey of Recent Microscopic Ball Lightning Evidence in Transmutation Experiments	
E. Lewis	What Does the Eighty Year Periodicity of Paradigm Shifts in the History of Physics Suggest For the Development of the Cold Fusion Field?	
T. Grimshaw	Open Source Science Applied to CMNS Research: A Paradigm for Enhancing Cold Fusion Prospects and the Public Interest	
T. Grimshaw	Public Interest Arguments for Cold Fusion Policy Change: Opportunities for the CMNS Research Community	
V. B. Belyaev and M. B. Miller	Induced Molecular-Nuclear Transitions: "Molecular-Nuclear laser"?	
M. Swartz	The Phusor™ LANR Cathode is a Metamaterial which Creates Deuteron Flux for Excess Power Gain	
Posters: Thursday 14 August 2008 1700-1800 Lexington & Concord Rooms		
T. Chubb	Interface Model of Cold Fusion	
V. Adamenko and V. Vysotskii	The Mechanism of Creation of Magnetic Monopoles in Strong Magnetic Field of Laboratory System	
A. Lakshmanan	Controlled thermonuclear fusion of hydrogen nuclei during sodium metal dissolution in aqueous Epsom solution at a critical salt concentration through cavitation induced metastable nanocrystal nucleation – Can water serve as an infinite source of energy?	
R. Godes	Quantum Fusion Hypothesis	
H. Kozima	Complexity in the Cold Fusion Phenomenon	
H. Kozima	Nuclear Transmutations in Polyethylene (XLPE) Films and Water Tree Generation in Them	
S. Chubb	Roles of Finite Size and Interfaces in Triggering Excess Heat in Nanometer-scale PdD and Composite Nanometer-scale Compounds Containing Pd, D, and ZrO ₂ in the Pons-Fleischmann Excess Heat Effect	
M. Swartz	Optimal Operating Points in Active, Loaded Palladium Linked to Three Distinct Physical Regions	
I. Savvatimova and J. Dash	Transmutation of Elements during Conditions of Low-Energy Glow Discharge Exposure and the Associated Processes	
G. Miley	Enhanced Cluster Reactions in LENR	
I. Goryachev	Work Program for Developing Technologies in Environmentally Safe Alternative Energy Engineering	
I. Goryachev	Prospective Way to Solve the Problem of Radioactive Waste	