

239th ACS National Meeting – San Francisco, CA
New Energy Technology Symposium – Organizer: Jan Marwan
(Environmental Division)

Sunday, March 21

Morning Session – **Theory and Overview**

ENVR014

Abstract	Title	Presenter	Durat
	Introductory Remarks		0:10
11403	Bose-Einstein condensation nuclear fusion: Applications	Kim, Yeong	0:15
11391	Bose-Einstein condensation nuclear fusion: Theory	Kim, Yeong	0:15
14728	Wave model and its implication to an environmental safe nuclear reactor	Li, Xing	0:20
25303	Tunneling beneath the 4He^* fragmentation energy	Sinha, Krityunja	0:20
12236	Theoretical aspects on deuterons-to- ^4He channels	Takahashi, Akito	0:15
11129	Final products of 4D-fusion by tetrahedral symmetric condensate	Takahashi, Akito	0:15
17436	Modeling excess heat in the Fleischmann-Pons experiment	Hagelstein, Peter	0:20
13792	Underlying mechanism of the nuclear CF implied by the energy-momentum consevation	Sawada, Tetsuo	0:20
18687	Ultra high density deuterium clusters for low energy nuclear reactions	Miley, George	0:20
21600	Heavy electrons in nano-structure clusters in solid surfaces and their interactions with positive nuclei (protons and deuterons)	Alexandrov, Dimiter	0:20
25261	Only conventionally viable cold nuclear fusion theory?	Bass, Robert	0:20

Afternoon Session – **Excess Heat/Power and Calorimetry**

ENVR049

Abstract	Title	Presenter	Durat
20832	Possible d/d enhancement reaction rates by using 0.5 to 1 keV deuterons on metallic lattices	Dufour, Jacques	0:20
21688	Light water electrolysis with pulsed current between two cathode connections: Search for excess heat	Williams, Winthrop	0:20
22949	Does gas loading produce anomalous heat?	Kidwell, David	0:20
25276	Chemical and electrochemical studies of co-deposition systems in H_2O and D_2O	Miles, Melvin	0:15
25281	Measurements of excess power effects in Pd/ D_2O systems using a new isoperibolic calorimeter	Miles, Melvin	0:15
25313	Heat and radiation generation during hydrogenation of CH compound	Mizuno, Tadahiko	0:20
25358	Hybrid, high temperature CMNS reactor: Progress report of experiments performed at INFN-LNF (Italy)	Celani, Francesco	0:15
25385	Improvement of thermal irradiation by nanocoating of thin wires	Celani, Francesco	0:15
25416	Material characterization of Pd foils employed in calorimetric electrochemical experiments	Sarto, Francesca	0:15
25424	Role of surface properties in the electromagnetic field interaction with the Pd/electrolyte interface	Sarto, Francesca	0:15
25524	Impact of an applied magnetic field on a high electrical impedance LANR device	Swartz, Mitchell	0:20
15722	Anomalous heat evolution in charging of Pd nano-powders with hydrogen isotopes	Kitamura, Akira	0:20

Monday, March 22

Morning Session – Nuclear Transmutation and Neutron, Helium and Tritium Emission

ENVR050

Abstract	Title	Presenter	Durat
15128	Characterization of nuclear emissions resulting from Pd/D co-deposition	Mosier-Boss, Pamela	0:20
19786	Hot spots, chain events and micro-nuclear explosions	Srinivasan, Mahadeva	0:20
16038	Charged particle emissions from the surface of the Pd and Ti deuterides upon their excitation with electron and X-ray beams	Lipson, Andrei	0:20
19844	Anomalous hydrogen evolution subject to pulsed electric explosion of thin titanium foils in water	Urutskoev, Leonid	0:15
16162	Nuclear transmutation in a gas-loading D/Pd system	Li, Xingzhong	0:15
19471	On the production of energy and helium in low energy nuclear reactions	Fisher, John	0:20
17570	Low energy nuclear transmutation reactions induced by deuterium permeation through multilayer Pd and CaO thin film	Iwamura, Yasuhiro	0:20
25288	Anomalous elements on the cathode surface after aqueous electrolysis	Dash, John	0:20
25574	Anomalous transmutation in an emission-free exhaust gas handling system	Jiang, Xingliu	0:20
25554	Observation of radiation and transmutation processes of bubble cavitation in free water jet	Vysotskii, Vladimir	0:20
11494	Model for sonofusion	Stringham, Roger	0:20

Afternoon Session – New Perspectives

ENVR051

Abstract	Title	Presenter	Durat
22312	Identifying the rate limiting steps in sustainable algae production for bioenergy	Clarens, Andres	0:20
25434	Material science behind the Fleishmann and Pons effect	Violante, Vittorio	0:20
25325	Cryogenic calorimetry of "exploding" PdD _x wires	Tanzella, Francis	0:20
25547	Method of low energy nuclear reactions acceleration by formation of correlated states of interacting particles	Vysotskii, Vladimir	0:15
19784	Observation of excess power and isotope effect using D-Pd codeposition methods	Hagelstein, Peter	0:15
15814	Cold fusion, LENR, CMNS, FPE: One perspective on the state of the science	McKubre, Michael	0:20
13849	Catching CO ₂ : Natural products, big molecules and small molecules as H-bonding CO ₂ receptors	Tossell, John	0:20
13070	Beneficial uses of aluminum wastes instead of landfilling	Calder, G.	0:20
12816	Advances in new energy technologies with van der Waals and Casimir forces based on vacuum energy	Ludwig, Thorsten	0:15
20726	Quantum field energy sensor based on the Casimir effect	Ludwig, Thorsten	0:15
12238	Appearance of palladium on zinc anode under vacuum	Esko, Edward	0:20
25532	Nanostructured palladium electrochemistry	Marwan, Jan	0:10