New Energy Technology Symposium – Organizer: Jan Marwan

(Division of Environmental Chemistry)

American Chemical Society National Meeting, San Francisco, CA, March 21 - 25

Dear Colleagues and Presenters,

Based on the number of abstracts submitted, the San Francisco meeting will be one of the largest ACS national meetings ever. Attendees will participate in thematic programming on the topic of "Chemistry for a Sustainable World" and in technical sessions presenting cutting-edge research discoveries in chemistry and related fields.

The New Energy Technology Symposium that to large extent contains presentations on Low Energy Nuclear Reactions – LENR - (historically named as "cold fusion"), this time, is extremely full and the schedule very tight. A total of 61 abstracts have been submitted to this symposium, and as there are numerous others at this meeting and the number of participants unexpectedly large, four ½ day oral sessions have been assigned to our symposium.

I therefore decided to move part of the speakers to the poster sessions and selected those who, from what I know and suspected, may not be able to attend the meeting in San Francisco due to their difficult financial situation at this time and so to give those a fair chance to speak at this meeting who, we are quite sure, will participate. However, I need to emphasise that, to my mind, a poster is a very honourable presentation and I'd like to encourage everyone to show respect to those who are to give a poster. As we had to be very much selective, we decided to only consider science papers for oral presentations and therefore, unfortunately, had to move the valuable journalistic review report to the poster session.

Those who will present 2 papers are scheduled for 15-20 minutes (first talk) and 15 minutes (second talk). All others (who present one paper) are scheduled for 20 minutes, except Dr L. Urutskoev who will present one paper (15 minutes), which to include in the programme was very difficult (because of the small time window), but as he claimed high interest to participate this meeting to give a talk, we worked hard to try our best to provide a platform for this high quality research he is going to present.

The lecture "Charged particle emission from the surface of Pd and Ti deuterides..." that was supposed to be given by Dr A. Lipson who suddenly died on November 1st, will be held by Prof G. Miley and myself, mainly to honour Andrei Lipson, a great Russian scientist.

The New Energy Technology Symposium will be held on Sunday and Monday, March 21 – 22. I encourage speakers and presenters, and those who else are interested, to arrive not later than Sunday afternoon. I will arrange science/social evenings in San Francisco on Sun/Mon/Tue so that we all may come together to discus our research, projects and plans how to continue in the future.

I expect Press and Media at this Symposium, and I also noticed increasingly high interest from outside of our community, saying that step by step more and more Universities and Research Institutes from many countries are trying to get informed about what LENR is like, what is the current perspective of our research and how does it contribute to develop a clean energy source that may help confront climate change.

Please view the conference programme attached.

I'll see you in San Francisco.

Jan Marwan

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ACS Chemistry for Life™

239th ACS National Meeting & Exposition
March 21-25, 2010, San Francisco, California

Multidisciplinary Areas

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ENVR Souhail Al-Abed Sunday, March 21, 2010

Oral

New Energy Technologies - AM Session
Theory and Overview
Location: Parc 55
Room: Cyril Magnin III
Sponsored by: ENVR: Division of Environmental Chemistry
Organizers: Jan Marwan
Presiders: Jan Marwan
Duration: 8:30 am - 12:00 pm

Pres Time	Pub #	Presentation Title
8:30 am		Introductory Remarks
8:40 am	11	Bose-Einstein condensation nuclear fusion: Applications Yeong E. Kim, Prof.
8:55 am	12	Bose-Einstein condensation nuclear fusion: Theory Yeong E. Kim, Prof.
9:10 am	13	Wave model and its implication to an environmental safe nuclear reactor Xing Z. Li, Prof., PhD
9:30 am	14	Tunneling beneath the 4He* fragmentation energy Andrew Meulenberg, DR, PhD Krityunja P Sinha, Prof, PhD
9:50 am	15	Theoretical aspects on deuterons-to-^{4}He channels Akito Takahashi, Prof., PhD
10:05 am	16	Final products of 4D-fusion by tetrahedral symmetric condensate Akito Takahashi, Prof., PhD
10:20 am	17	Modeling excess heat in the Fleischmann-Pons experiment Peter L. Hagelstein, Prof. Irfan U. Chaudhary, Prof.
10:40 am	18	Underlying mechanism of the nuclear CF implied by the energy-momentum consevation Tetsuo Sawada, Dr.
11:00 am	19	Ultra high density deuterium clusters for low energy nuclear reactions George H Miley, Prof. Xiaoling Yang, Dr. Heinz Hora, Prof.
11:20 am	20	Heavy electrons in nano-structure clusters in solid surfaces and their interactions with positive nuclei (protons and deuterons) Dimiter Alexandrov, Prof., PhD
11:40 am	21	Only conventionally viable cold nuclear fusion theory? Robert W Bass, Prof retired, PhD

ENVR Souhail Al-Abed Sunday, March 21, 2010

Oral

New Energy Technologies - PM Session
Excess Heat/Power and Calorimetry

Location: Parc 55
Room: Cyril Magnin III
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Organizers: Jan Marwan
Presiders: Jan Marwan
Duration: 1:30 pm - 5:00 pm

Pres Time	Pub #	Presentation Title
1:30 pm	49	Possible d/d enhancement reaction rates by using 0.5 to 1 keV deuterons on metallic lattices Jacques Dufour,
1:50 pm	50	Light water electrolysis with pulsed current between two cathode connections: Search for excess heat Winthrop Williams, Dr. Robert Godes,
2:10 pm	51	Does gas loading produce anomalous heat? David A Kidwell, Dr., PhD David L Knies, Dr., PhD Kenneth S Grabowski, Dr., PdD
2:30 pm	52	Chemical and electrochemical studies of co-deposition systems in H_2O and D_2O Melvin H Miles, DR, Phd
2:45 pm	53	Measurements of excess power effects in Pd/D_2O systems using a new isoperibolic calorimeter Melvin H Miles, Dr Martin Fleischmann, Prof
3:00 pm	54	Heat and radiation generation during hydrogenation of CH compound Tadahiko Mizuno, Dr, PhD
3:20 pm	55	Hybrid, high temperature CMNS reactor: Progress report of experiments performed at INFN-LNF (Italy) Francesco Celani, Dr P Marini, Dr V. di Stefano, V. di Stefano, M. Nakamura, O. M. Calamai, A. Spallone, E. Purchi, V. Andreassi, B. Ortenzi, E. Righi, G. Trenta, G. Cappuccio(, D. Hampai, F. Piastra, A. Nuvoli,
3:35 pm	56	Improvement of thermal irradiation by nanocoating of thin wires Francesco Celani, Dr P Marini, V di Stefano, M Nakamura, O. M. Calamai, A. Spallone, E. Purchi, V Andreassi, B Ortenzi, E Righi, G Trenta, G Cappuccio, D Hampai, F Piastra, A Nuvoli,
3:50 pm	57	Material characterization of Pd foils employed in calorimetric electrochemical experiments Francesca Sarto, Dr E Castagna, S Lecci, V Violante,
4:05 pm	58	Role of surface properties in the electromagnetic field interaction with the Pd/electrolyte interface Francesca Sarto, Dr E Castagna, S Lecci, V Violante,
4:20 pm	59	Impact of an applied magnetic field on a high electrical impedance LANR device Mitchell Swartz, Dr, PhD
4:40 pm	60	Anomalous heat evolution in charging of Pd nano-powders with hydrogen isotopes Akira Kitamura, Prof. Yu Sasaki, Yuki Miyoshi, Akira Taniike, Assoc. Prof. Akito Takahashi, Prof. Emeritus Reiko Seto, Yushi Fujita,

ENVR **Souhail Al-Abed** **Monday, March 22, 2010**

Oral

New Energy Technologies - AM Session
Nuclear Transmutation and Tritium, Neutron, Helium Emission
Location: Parc 55
Room: Cyril Magnin III
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Duration: 8:30 am - 12:00 pm

Pres Time	Pub #	Presentation Title

8:30 am	86	Characterization of nuclear emissions resulting from Pd/D co-deposition Pamela A. Mosier-Boss, Dr. Frank E. Gordon, Dr. Lawrence P.G. Forsley, Mr.
8:50 am	87	Hot spots, chain events and micro-nuclear explosions Mahadeva Srinivasan, Dr.
9:10 am	88	Charged particle emissions from the surface of the Pd and Ti deuterides upon their excitation with electron and X-ray beams Andrei Lipson, Dr. Ivan Chernov, Prof. Alexei Roussetski, Dr. Michael E. Melich, Prof. Boris Lyakhov, Dr. Aslan Tsivadze, Prof. Andrey Lider, Dr.
9:30 am	89	Anomalous hydrogen evolution subject to pulsed electric explosion of thin titanium foils in water Leonid I Urutskoev, Dr. Dmitry V Filippov, Dr. Anri A Rukhadze, Prof. Larion A Lebedev, Dr.
9:45 am	90	Nuclear transmutation in a gas-loading D/Pd system Bin Liu, Dr., PhD Xingzhong Li, Prof., PhD QingMing Wei, ChangLin Liang, Dr., PhD JinZhi Yu, Dr., PhD
10:00 am	91	On the production of energy and helium in low energy nuclear reactions John C. Fisher,
10:20 am	92	Low energy nuclear transmutation reactions induced by deuterium permeation through multilayer Pd and CaO thin film Yasuhiro Iwamura, Dr. Takehiko Itoh, Noriko Yamazaki, Noriko Watari, Dr. Jirohta Kasagi, Prof. Yasuko Terada, Dr. Tetsuya Ishikawa, Dr.
10:40 am	93	Anomalous elements on the cathode surface after aqueous electrolysis John Dash, Dr
11:00 am	94	Anomalous transmutation in an emission-free exhaust gas handling system Xingliu Jiang, Dr
11:20 am	95	Observation of radiation and transmutation processes of bubble cavitation in free water jet Vladimir Vysotskii, Dr Alla A Kornilova, Dr
11:40 am	96	Model for sonofusion Roger S Stringham, Mr.

ENVR **Souhail Al-Abed** **Monday, March 22, 2010**

Oral

New Energy Technologies - PM Session

New Perspectives

Location: Parc 55

Room: Cyril Magnin III

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Duration: 1:30 pm - 5:00 pm

Pres Time	Pub #	Presentation Title
1:30 pm	121	Identifying the rate limiting steps in sustainable algae production for bioenergy Andres F Clarens, Prof., PhD Eleazer Resurreccion, Mr. Lisa M Colosi, Prof., PhD
1:50 pm	122	Material science behind the Fleishmann and Pons effect Vittorio Violante, Dr F Sarto, E Castagna, S Lecci, G Hubler, D Knies, K Grabowski, M McKubre, F Tanzella, T Zilov,
2:10 pm	123	Cryogenic calorimetry of "exploding" PdD_x wires Francis Tanzella, Dr, PhD Michael Mc Kubre, Dr, PhD
2:30 pm	124	Method of low energy nuclear reactions acceleration by formation of correlated states of interacting particles Vladimir Vysotskii, Prof Stanislav Adamenko, PhD
2:45 pm	125	Observation of excess power and isotope effect using D-Pd codeposition methods Dennis Letts, Peter Hagelstein,
3:00 pm	126	Cold fusion, LENR, CMNS, FPE: One perspective on the state of the science Michael C McKubre, Dr.

3:20 pm	127	Catching CO_2: Natural products, big molecules and small molecules as H-bonding CO_2 receptors John A. Tossell, Prof.
3:40 pm	128	Beneficial uses of aluminum wastes instead of landfilling G. Vincent Calder, Dr., PhD Timothy D. Stark, Professor, PhD
4:00 pm	129	Advances in new energy technologies with van der Waals and Casimir forces based on vacuum energy Thorsten Ludwig, Dr.
4:15 pm	130	Quantum field energy sensor based on the Casimir effect Thorsten Ludwig, Dr.
4:30 pm	131	Withdrawn. Edward Esko,
4:50 pm	132	Nanostructured palladium electrochemistry Jan Marwan, Dr, PhD

ENVR **Souhail Al-Abed** **Wednesday, March 24, 2010**

Poster

New Energy Technologies - EVE Session

Location: The Moscone Center

Room: Hall D

Sponsored by: ENVR: Division of Environmental Chemistry

Organizers: Jan Marwan

Presiders: Jan Marwan

Duration: 6:00 pm - 8:00 pm

Pub #	Presentation Title
490	Peculiarities of PSSD pits in space and observation of Erzions Tracks producing pits swarms in PSSD in space Yuri Nikolaewitsch Bazhutov, Dr Charmian Alexandrovna Tretyakova, Dr
491	Thought experiment on nuclear fusion Nono Yabuchi,
559	Absorption capacity and heat evolution with loading of hydrogen isotope gases for Pd nano particles and Pd/ceramics nano composites Tatsumi Hioki, Dr Hirozumi Azuma, Dr. Teppei Nishi, Akio Itoh, Junsi Gao, Dr. Shogo Hibi, Tomoyoshi Motohiro, Dr. Jirohta Kasagi, Prof.