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The Preprint of the ICCF-17 Proceedings

The 17th International Conference on Cold Fusion

August 12~17, 2012

DCC Korea, Daejeon, South Korea



Organized by **ICCF-17**
Organizing Committee

Co-sponsored by

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Program at a Glance

ICCF-17 The 17th International Conference on Cold Fusion

Time	Aug. 10 (Fri.)	Aug. 11 (Sat.)	Aug. 12 (Sun.)	Aug. 13 (Mon.)	Aug. 14 (Tue.)	Aug. 15 (Wed.)	Aug. 16 (Thu.)	Aug. 17 (Fri.)			
09:00-09:15	KAIST EEWS Workshop (ICCF-17 Tutorial)	Optional Tour			[TuM1]	[WeM1]	[ThM1]	[FrM1]			
09:15-09:30					[TuM1-1] Mahadeva Srinivasan	[WeM1-1] Akito Takahashi	[ThM1-1] Liu Bin	[FrM1-1] Thomas W Grimshaw			
09:30-09:45				[Opening Ceremony] Sunwon Park [Martin Fleischmann Memorial] Michael McKubre	[TuM1-2] Pamela A. Mosier-Boss	[WeM1-2] Yeong E. Kim	[ThM1-2] Sakoh Hideyuki	[FrM1-2] Christian Elsner			
09:45-10:00											
10:00-10:15				[Plenary Lecture] Frank Gordon	[TuM1-3] Melvin H. Miles	[WeM1-3] Peter L. Hagelstein	[ThM1-3] John Dash	[FrM1-3] Jed Rothwell			
10:15-10:30											
10:30-10:45				Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break			
10:45-11:00											
11:00-11:15							[MoM1]	[TuM2]	[WeM2]	[ThM2]	[FrM2]
11:15-11:30							[MoM1-1] Francesco Piantelli /Peter Mobberley	[TuM2-1] Mitchell Swartz /Peter L. Hagelstein	[WeM2-1] Xing Zhong Li	[ThM2-1] Tatsumi Hioki	[FrM2-1] Tyler van Houwelingen
11:30-11:45				[MoM1-2] Menelaos Koulouris (Defkalion)	[TuM2-2] Michael McKubre	[WeM2-2] Andrew Meulenburg	[ThM2-2] Yasuhiro Iwamura	[FrM2-2] Commercialization and Worldwide Impact Panel Discussion			
11:45-12:00											
12:00-12:15	Lunch			[MoM1-3] Francis Louis Tanzella/Brillouin	[TuM2-3] Tadahiko Mizuno	[WeM2-3] Vladimir Vysotskii	[ThM2-3] Sanjai Sinha	Closing Comments Sunwon Park /Frank Gordon			
12:15-12:30											
12:30-13:00											
13:00-13:30											
13:30-13:45	KAIST EEWS Workshop (ICCF-17 Tutorial)	Optional Tour	Registration	Lunch	Lunch	Lunch	Lunch				
13:45-14:00											
14:00-14:15							[MoA1]	[TuA1]	[WeA1]	[ThA1]	
14:15-14:30							[MoA1-1] George Miley /Kyu-Jung Kim	[TuA1-1] Lawrence P. G. Forsley	[WeA1-1] Michael McKubre Theory Panel Discussion	[ThA1-1] Olga Dmitriyeva	
14:30-14:45							[MoA1-2] Mitchell Swartz /Peter L. Hagelstein	[TuA1-2] Jean Paul Biberian		[ThA1-2] Jean Paul Biberian	
14:45-15:00							Break	[TuA1-3] Francesco Celani Demo	[WeA1-2] Dawn D. Dominguez	[ThA1-3] David J. Nagel	
15:00-15:15							Introduction of Poster Session	Coffee Break	Coffee Break	Coffee Break	
15:15-15:30											
15:30-15:45											
15:45-16:00								[TuA2]	[WeA2]	[ThA2]	
16:00-16:15					[TuA2-1] Akira Kitamura	[WeA2-1] Alexander Didyk	[ThA2-1] A. B. Karabut				
16:15-16:30											
16:30-16:45				Poster Session & Coffee Break	[TuA2-2] Naoko Takahashi	[WeA2-2] Eric Daniel Lukosi (Missouri University)	[ThA2-2] Francesco Celani Demo				
16:45-17:00											
17:00-17:15											
17:15-17:30					[TuA2-3] David A Kidwell	[WeA2-3] Yury Bazhutov	Banquet Speech by Duncan Bockris Award Ceremony Entertainment				
17:30-17:45											
17:45-18:00											
18:00-20:00		Welcome Reception	* Review Committee Meeting	* IAC Meeting							

* is closed program

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Co-sponsored by



The International Society for Condensed Matter Nuclear Science
Korean Institute of Chemical Engineers.
Korean Nuclear Society
Korean Institute of Metals and Materials
Korea Research Institute of Chemical Technology
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ICCF-17

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The 17th International
Conference on Cold Fusion

I. Welcome Message

Welcome to ICCF-17 from the Conference Chairmen

Welcome to the 17th International Conference on Cold Fusion (ICCF-17) to be held in Daejeon, Republic of Korea during August 12-17, 2012. This is the oldest conference dedicated to “Cold Fusion”, also known by several names including Condensed Matter Nuclear Science (CMNS), Low Energy Nuclear Reactions (LENR) and Lattice Assisted Nuclear Reactions (LANR).

ICCF-17 promises to be the most interesting and timely conference. Recent claims that the Nickel-Hydrogen system can produce commercially viable amounts of excess energy have reinvigorated research. As with the initial announcement by Fleischmann and Pons involving Palladium-Deuterium, new groups of scientists are getting involved to conduct experiments using Nickel and Hydrogen, all looking for a safe, low-cost nuclear solution to the world’s energy needs. ICCF-17 offers a unique opportunity for scientists from around the world to come together to report experimental results, present new theories, and share ideas in this most interesting and important scientific area. It also represents an opportunity for government agencies, industry, investors, and academia to meet face-to-face with scientists who have kept the dream alive.

Compelling experimental results supporting the Cold Fusion have been presented in the past 16 conferences but most main stream scientists and the general public are not aware of them. ICCF should not be the party only for people who believe in cold fusion. We especially invite skeptics and mainstream scientists from nuclear physics and nuclear engineering to attend and learn about the experimental results and engage in scientific discussions. ICCF-17 session topics will cover basic research, experimental results, applications of the technology, and theoretical developments.

The city of Daejeon, located approximately 100 miles south from Seoul is the ideal setting for the conference. Daejeon is home to many national research institutes in Korea and also the Korea Advanced Institute of Science and Technology, (KAIST) which was identified by Asiaweek in 1999-2000 as the number one university in science and technology in Asia. The city of Daejeon, the Republic of Korea, and the organizing committee are working to make ICCF-17 a special event.

“Cold Fusion” has sometimes been referred to as an example of bad science. We agree. It was bad science when Galileo agreed with Copernicus that the Earth orbited the sun and he was charged with heresy and placed under house arrest. It was bad science with Roemer announced that contrary to the prevailing belief, the speed of light was not infinite but was actually 186,000 miles per second. He was ridiculed by the scientific establishment and driven out of a scientific career. It was bad science when doctors continued to go from patient to patient without washing their hands, leading to childbirth mortality rates as high as 28% even after clinical studies had shown that washing between patients could significantly reduce mortality. It wasn’t until many years later after Pasteur had identified bacteria that could be transmitted from patient to patient that hand-washing was widely adopted. These are just three examples of a long list of “bad science.”

In each of these cases, it took in excess of 20 years after the initial announcement and compelling experimental evidence before the mainstream scientific establishment accepted the change. In this light, “cold fusion” is another example of bad science. And as with the examples listed above, after more than 20 years it is getting harder to deny the experimental evidence of “cold fusion.” We believe “cold fusion” is well on its way to becoming an accepted scientific fact and that ICCF-17 will be a pivotal event in answering the question of whether “cold fusion” can become the safe, low-cost nuclear energy source to meet the world’s growing energy demand.

Please make plans now to join us in Daejeon for ICCF-17, August 12-17, 2012.

Sunwon Park, Chairman

Professor of Chemical and
Biomolecular Engineering Department
KAIST
Daejeon
Republic of Korea

Frank Gordon, Co-chairman

Senior VP, Global Energy Corporation
Retired Head, Research and Applied Sciences Dept
US Navy SPAWAR Systems Center
San Diego, CA
USA

II. Committees

General Chair

- Sunwon Park (KAIST, Korea)

General Co-chair

- Frank Gordon (SPAWAR (retired), USA)

International Advisory Committee

- Yury Bazutov (IZMIRAN RAS, Russia)
- Jean Paul Biberian (Aix-Marseille University, France)
- Francesco Celani (Frascati National Laboratory, Italy)
- William Collis (ISCMNS, UK)
- Martin Fleischmann (Southampton University (retired), UK)
- Frank Gordon (SPAWAR (retired), USA)
- Igor Goriachev (Kurchatov Institute, Russia)
- Peter L. Hagelstein (MIT, USA)
- Yasuhiro Iwamura (Mitsubishi Heavy Industries, Japan)
- Yeong E. Kim (Purdue University, USA)
- Xing Zhong Li (Tsinghua University, China)
- Michael McKubre (SRI International, USA)
- Michel E. Melich (Naval Postgraduate School, USA)
- George Miley (University of Illinois, USA)
- David J. Nagel (George Washington University, USA)
- Sunwon Park (KAIST, Korea)
- Seung Bin Park (KAIST, Korea)
- Vittorio Violante RdA (ENEA, Frascati, Italy)
- Francesco Scaramuzzi (LNF/INFN, Italy)
- Mahadeva Srinivasan (BARC (retired), India)
- Akito Takahashi (Technova, Inc., Japan)

National Steering Committee

- Soon Heung Chang (KAIST, Korea)
- Kew-Ho Lee (Korea Research Institute of Chemical Technology/UST, Korea)
- Sung-Chul Shin (DGIST, Korea)
- Seung Bin Park (KAIST, Korea)
- Seung Jong Lee (Seoul National University, Korea)
- Sunwon Park (KAIST, Korea)

Technical Program Committee

- Gun-Woong Bahng (Korea Research Institute of Standards and Science, Korea)
- Pamela A. Mosier-Boss (MIT, USA)
- Francesco Celani (Frascati National Laboratory, Italy)
- William Collis (ISCMNS, UK)
- Lawrence P. G. Forsley (Global Energy Corporation, USA)
- Frank Gordon (SPAWAR (retired), USA)
- Peter L. Hagelstein (MIT, USA)
- J. Kasagi (LNS, Tohoku University Sendai, Japan)
- Yeong E. Kim (Purdue University, USA)
- Do Hyun Kim (KAIST, Korea)
- Kew-Ho Lee (Korea Research Institute of Chemical Technology/UST, Korea)
- Xing Zhong Li (Tsinghua University, China)
- Michael McKubre (SRI International, USA)
- Michel E. Melich (Naval Postgraduate School, USA)
- David J. Nagel (George Washington University, USA)
- Sunwon Park (KAIST, Korea)
- Mahadeva Srinivasan (BARC (retired), India)
- Edmund Storms (LANL (retired), USA)
- Akito Takahashi (Technova, Inc., Japan)
- Jin-Hee Yoon (Inha University, Korea)

Publications Committee

- Chair, Doh Chang Lee (KAIST, Korea)

Publicity Committee

- Co-chair, Yoon-Bong Hahn (Chonbuk National University, Korea)
- Co-chair, Do Hyun Kim (KAIST, Korea)
- Co-chair, MoonYong Lee (Yeungnam University, Korea)
- Co-chair, Kwan Young Lee (Korea University, Korea)

Secretariat Committee

- Chair, Woohyun Kim (KAIST, Korea)
- Genicom Co., Ltd. (Korea)

III. Technical Program

1. Information on Technical Program

Oral Presentation Guideline

- The time for oral presentation is 30 minutes and this includes the presentation and Q&A time.
- A LCD projector and a computer with Windows OS, MS PowerPoint and Adobe Acrobat Reader installed will be available in session room for regular presentations. For presenters, please kindly bring your presentation saved on a USB memory stick and load your presentation on the computer prior to the session.
- MAC users, please bring your own cable to connect it to the LCD projector. MAC cables may NOT be available on site, so please be sure to bring the necessary adaptors.
- Please provide your presentation file to info@iccf17.org at least one day before your session begins.
- If the presentation contains video or audio, please let us know when you register so that we can check to be sure that the presentation will work with the systems available at the conference.
- Video recordings will be made of all presentations during the conference for possible distribution including posting on the internet or other uses.

Poster Presentation Guideline

Poster-teaser-session

- On Monday afternoon, you will have an opportunity to promote your poster via 2 slides for 1 minute poster teaser presentation.
- Please indicate the Paper No. on the upper center of the presentation slide. Please do not include videos, as we cannot guarantee that they will work.

Poster Presentation Guideline

- Poster will be placed during the whole conference day.
- The poster size shall be limited to 0.9m in width and 1.5m in height.
- Poster number will be placed on the top of each poster board to help presenters easily find the designated spot.
- Adhesive tapes will be available within the poster presentation area but push-pins and double-sided tapes are prohibited.

Guide to Understanding Session Numbering

Each session in the technical program is assigned a unique number which clearly indicates when the session is presented.

Day				Time		Session Order	
Mo	Monday	Th	Thursday	M	Morning	1	First Session
Tu	Tuesday	Fr	Friday	A	Afternoon	2	Second Session
We	Wednesday						

Example) [MoM1]: the 1st session on Monday morning

2. Technical Sessions

August 13, 2012 [Monday]

Opening Ceremony		August 13, 2012 (Monday) / 09:30 - 09:40
M. Fleischmann Memorial	Date & Time	August 13, 2012 (Monday) / 09:40 - 09:50
Plenary Lecture		August 13, 2012 (Monday) / 09:50 - 10:30

Opening Ceremony	09:30 - 09:40	Opening Ceremony Sunwon Park (KAIST, Korea)
M. Fleischmann Memorial	09:40 - 09:50	Martin Fleischmann Memorial Michael McKubre (SRI International, USA)
Plenary Lecture	09:50 - 10:30	Cold Fusion-From the Laboratory to the World: Setting the Stage for ICCF-17 Sunwon Park (KAIST, Korea) and Frank Gordon (SPAWAR (retired), USA)

MoM1	Date & Time	August 13, 2012 (Monday) / 11:00 - 12:30
Session Chair		Prof. Seungbin Park (KAIST, Korea)

MoM1-1	11:00 - 11:30	Anomalous phenomenon in Ni-H Systems F. Piantelli (Italy) *Speaker: Peter Mobberley (Advanced Energy Technologies, UK)
MoM1-2	11:30 - 12:00	Technical Characteristics and Performance Issues of Defkalion's Hyperion Pre-Industrial Product and Further Developments John Hadjichristos (Praxen Defkalion Green Technologies (Global) Ltd., Greece) *Speaker: Menelaos Koulouris (Praxen Defkalion Green Technologies (Global) Ltd., Greece)
MoM1-3	12:00 - 12:30	Controlled Electron Capture and the Path toward Commercialization Robert Godes, Robert George (Brillouin Energy Corporation, USA), Francis Tanzella, and Michael McKubre (SRI International, USA)

August 13, 2012 [Monday]

MoA1	Date & Time	August 13, 2012 (Monday) / 14:00 - 15:00
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Session Chair	Dr. Gun Woong Bahng (Korea Research Institute of Standards and Science, Korea)	
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MoA1-1	14:00 - 14:30	Use of D/H Clusters in LENR and Recent Results from Gas Loaded Nanoparticle-Type Clusters
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George H. Miley, Xiaoling Yang, Kyujung Kim (University of Illinois, USA), and Heinrich Hora (University of New South Wales, USA)

MoA1-2	14:30 - 15:00	Demonstration of Energy Gain from a Preloaded ZrO₂-PdD Nanostructured CF/LANR Quantum Electronic Device at MIT
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Mitchell R. Swartz (JET Energy, Inc., USA) and Peter L. Hagelstein (MIT, USA)

Poster Teaser Session	Date & Time	August 13, 2012 (Monday) / 15:15 - 16:30
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Session Chair	Prof. Byung Yoon Park (Chungnam National University, Korea)	
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Poster Session	Date & Time	August 13, 2012 (Monday) / 16:30 - 18:00
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August 14, 2012 [Tuesday]

TuM1	Date & Time	August 14, 2012 (Tuesday) / 09:00 - 10:30
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Session Chair	Prof. Kew-Ho Lee (Korea Research Institute of Chemical Technology, Korea)	
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TuM1-1	09:00 - 09:30	Transmutations and Isotopic Shifts in LENR Experiments: An Overview Mahadeva Srinivasan (Bhabha Atomic Research Centre (BARC), India)
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TuM1-2	09:30 - 10:00	It's not Low Energy – But it is Nuclear Pamela A. Mosier-Boss (MIT, USA)
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TuM1-3	10:00 - 10:30	Co-Deposition of Palladium and Other Transition Metals in H₂O and D₂O Solutions Melvin H. Miles (Dixie State College, USA)
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TuM2	Date & Time	August 14, 2012 (Tuesday) / 11:00 - 12:30
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Session Chair	Prof. Hongjoo Kim (Kyungpook National University, Korea)	
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TuM2-1	11:00 - 11:30	Energy Gain from Preloaded ZrO₂-PdNi-D Nanostructured CF/LANR Quantum Electronic Components Mitchell Swartz, Gayle Verner, and Jeffrey Tolleson (JET Energy, Inc., USA) *Speaker: Peter L. Hagelstein (MIT, USA)
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TuM2-2	11:30 - 12:00	Calorimetric Studies of the Destructive Stimulation of Palladium and Nickel Fine Wires Michael Mckubre, Jianer Bao, Francis Tanzella (SRI International, USA), and Peter Hagelstein (MIT, USA)
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TuM2-3	12:00 - 12:30	Theoretical Analysis of Chemically Assisted Nuclear Reactions (CANR) in Nanoparticles Tadahiko Mizuno (Hydrogen Engineering Application & Development Company, Japan)
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August 12~17, 2012 / DCC Korea, Daejeon, South Korea

August 14, 2012 [Tuesday]

TuA1	Date & Time	August 14, 2012 (Tuesday) / 14:00 - 15:30
Session Chair		Prof. Do Hyun Kim (KAIST, Korea)
TuA1-1	14:00 - 14:30	Tickling the Dragon's Tail: Harnessing LENR Lawrence P. G. Forsley (Global Energy Corporation, USA)
TuA1-2	14:30 - 15:00	Possible Role of Oxides in the Fleischmann-Pons Effect Jean-Paul Biberian (Aix-Marseille University, France), Iraj Parchamazad, and Melvin H. Miles (University of La Verne, USA)
TuA1-3	15:00 - 15:30	Cu-Ni-Mn Alloy Wires, with Improved Sub-Micrometric Surfaces, used as LENR Device by New Transparent, Dissipation-Type, Calorimeter Francesco Celani, E. F. Marano, A. Spallone, A. Nuvoli (Frascati National Laboratories, Italy), E. Purchi, M. Nakamura (ISCMNS, Italy), B. Ortenzi, S. Pella, E. Righi, G. Trenta, S. Bartalucci (Frascati National Laboratories, Italy), G. L. Zangari (ISCMNS, Italy), F. Micciulla, and S. Bellucci (Frascati National Laboratories, Italy)
TuA2	Date & Time	August 14, 2012 (Tuesday) / 16:00 - 17:30
Session Chair		Prof. Jin-Hee Yoon (Inha University, Korea)
TuA2-1	16:00 - 16:30	Recent Progress in Gas-Phase Hydrogen Isotope Absorption/Adsorption Experiments A. Kitamura, Y. Miyoshi, H. Sakoh, A. Taniike, Y. Furuyama (Kobe University, Japan), A. Takahashi, R. Seto, Y. Fujita (Technova Inc., Japan), T. Murota, and T. Tahara (Santoku Corp., Japan)
TuA2-2	16:30 - 17:00	Detection of Pr in Cs Ion-Implanted Pd/CaO Multilayer Complexes with and without D₂ Gas Permeation Naoko Takahashi, Satoru Kosaka, Tatsumi Hioki, and Tomoyoshi Motohiro (Toyota Central R&D Labs., Inc., Japan)
TuA2-3	17:00 - 17:30	Gas Loading of Nanopalladium D. A. Kidwell (Naval Research Laboratory, USA)

August 15, 2012 [Wednesday]

WeM1	Date & Time	August 15, 2012 (Wednesday) / 09:00 - 10:30
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Session Chair	Prof. Byung-taik Kim (SungKyunKwan University, Korea)
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WeM1-1	09:00 - 09:30	Physics of Cold Fusion by TSC Theory
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Akito Takahashi (Technova Inc., Japan)

WeM1-2	09:30 - 10:00	Conventional Nuclear Theory of Low-Energy Nuclear Reactions in Metals: Alternative Approach to Clean Fusion Energy Generation
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Yeong E. Kim (Purdue University, USA)

WeM1-3	10:00 - 10:30	A Model for Collimated X-Ray Emission in the Karabut Experiment
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Peter Hagelstein (Massachusetts Institute of Technology, USA) and Irfan Chaudhary (University of Engineering and Tehcnology, Pakistan)

WeM2	Date & Time	August 15, 2012 (Wednesday) / 11:00 - 12:30
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Session Chair	Prof. Hasuck Kim (Daegu Gyeongbuk Institute of Science & Technology, Korea)
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WeM2-1	11:00 - 11:30	"Excess Heat" in Ni-H Systems and Selective Resonant Tunnelling
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Xing Z. Li, Zhan M. Dong, and Chang L. Liang (Tsinghua University, China)

WeM2-2	11:30 - 12:00	New Visions of Physics through the Microscope of Cold Fusion
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A. Meulenber (Universiti Sains Malaysia, Malaysia) and K. P. Sinha (Indian Institute of Science, India)

WeM2-3	12:00 - 12:30	Application of Correlated States of Interacting Particles in Nonstationary and Periodical Modulated LENR Systems
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Vladimir Vysotskii, Mykhaylo Vysotskyy (Kiev National Shevchenko University, Ukraine), and Stanislav Adamenko (Electrodynamics Laboratory "Proton-21", Ukraine)

August 15, 2012 [Wednesday]

WeA1	Date & Time	August 15, 2012 (Wednesday) / 14:00 - 15:30
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Session Chair	Dr. Michael McKubre (SRI International, USA)
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WeA1-1 14:00 - 15:00 **Theory Panel Discussion**

WeA1-2 15:00 - 15:30 **Anomalous Results in Fleischmann-Pons Type Electrochemical Experiments**

D. D. Dominguez (Naval Research Laboratory, USA), L. DeChiaro (Naval Surface Warfare Center, USA), D. A. Kidwell (Naval Research Laboratory, USA), A. E. Moser (Nova Research, Inc., USA), V. Violante (ENEA, Frascati, Italy), G. K. Hubler (Naval Research Laboratory, USA), S-F. Cheng (Naval Research Laboratory, USA), J-H. He (Nova Research, Inc., USA), and D. L. Knies (Naval Research Laboratory, USA)

WeA2	Date & Time	August 15, 2012 (Wednesday) / 16:00 - 17:30
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Session Chair	Dr. Suk Jae Yoo (National Fusion Research Institute, Korea)
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WeA2-1 16:00 - 16:30 **Nuclear Reactions in Gaseous Deuterium under High Pressure and in Saturated with Deuterium Palladium, Induced by γ -Quanta**

Alexander Yurievich Didyk (Joint Institute for Nuclear Research, Russia) and Roland Stanislaw Wiśniewski (National Center of Nuclear Research, Poland)

WeA2-2 16:30 - 17:00 **Diamond-Based Charged Particle and Neutron Sensor for LENR Experiments**

Eric Lukosi, Mark Prelas, Joongmoo Shim, Haruetai Kasiwattanawut, Charles Weaver, Cherian Joseph Mathai, Shubhra Gangopadhyay (University of Missouri, USA)

Neutron Emission from Cryogenically Cooled Metals under Thermal Shock

Mark A. Prelas and Eric Lukosi (University of Missouri, USA)

WeA2-3 17:00 - 17:30 **Investigation of Radiation Effects at Loading Ni, Be and LaNi₅ by Hydrogen**

Yu. N. Bazhutov (Terrestrial Magnetism, Ionosphere and Radiowave Propagation Institute RAS (IZMIRAN), Russia), E. O. Belousova (Lomonosov Moscow State University, Russia), V. P. Koretsky (retired, Russia), A. G. Parkhomov (Lomonosov Moscow State University, Russia), A. D. Sablin-Yavorsky (retired, Russia), and Yu. A. Sapozhnikov (Lomonosov Moscow State University, Russia)

August 16, 2012 [Thursday]

ThM1	Date & Time	August 16, 2012 (Thursday) / 09:00 - 10:30
Session Chair		Dr. Myung Won Seo (Korea Institute of Energy Research, Korea)
ThM1-1	09:00 - 09:30	Nuclear Transmutation on a Thin Pd Film in a Gas-Loading D/Pd System Bin Liu (Shenhua Group Corporation Limited, China), Zhan M. Dong, Chang L. Liang, and Xing Z. Li (Tsinghua University, China)
ThM1-2	09:30 - 10:00	Hydrogen Isotope Absorption and Heat Release Characteristics of a Ni-Based Sample H. Sakoh, Y. Miyoshi, A. Taniike, Y. Furuyama, A. Kitamura (Kobe University, Japan), A. Takahashi, R. Seto, Y. Fujita (Technova Inc., Japan), T. Murota, and T. Tahara (Santoku Corp., Japan)
ThM1-3	10:00 - 10:30	Effect of Recrystallization on Heat Output and Surface Composition of Ti and Pd Cathodes J. Dash and J. Solomon (Portland State University, USA)
ThM2	Date & Time	August 16, 2012 (Thursday) / 11:00 - 12:30
Session Chair		Prof. Hyunduk Kim (KAIST, Korea)
ThM2-1	11:00 - 11:30	Isotope Effect for Heat Generated upon Pressurizing Nano-Pd/Silica with Hydrogen Isotope Gases Tatsumi Hioki, Noriaki Sugimoto, Teppei Nishi, Akio Itoh, and Tomoyoshi Motohiro (Toyota Cenryal R & D Labs., Inc., Japan)
ThM2-2	11:30 - 12:00	Increase of Reaction Products in Deuterium Permeation Induced Transmutation Y. Iwamura, T. Itoh, M. Tsuruga, (Mitsubishi Heavy Industries, Ltd., Japan), K. Fukutani (University of Tokyo, Japan), and D. Sekiba (University of Tsukuba, Japan)
ThM2-3	12:00 - 12:30	Extraction of Useful Energy from Metal/H (D) Cathodes via Modulation of the Internal Energy of the Hydride System Sanjai Sinha (ChrononixUSA, USA)

August 16, 2012 [Thursday]

ThA1	Date & Time	August 16, 2012 (Thursday) / 14:00 - 15:30
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Session Chair	Dr. Woohyun Kim (KAIST, Korea)
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ThA1-1	14:00 - 14:30	Using Bakeout to Eliminate Heat from H/D Exchange during Hydrogen Isotope Loading of Pd-Impregnated Alumina Powder
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Olga Dmitriyeva, Richard Cantwell, Matt McConnell (Coolescence LLC, USA), and Garret Moddel (University of Colorado, USA)

ThA1-2	14:30 - 15:00	Cold Fusion
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Jean-paul Biberian (Aix-Marseille University, France)

ThA1-3	15:00 - 15:30	Statistical Analysis of Transmutation Data from LENR Experiments and Comparison with a Prediction Based on a Widom-Larsen Theory
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Felix Scholkmann (-, Switzerland) and David J. Nagel (The George Washington University, USA)

ThA2	Date & Time	August 16, 2012 (Thursday) / 16:00 - 17:00
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Session Chair	Dr. Young Kim (Korea Institute of Machinery & Material, Korea)
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ThA2-1	16:00 - 16:30	Excess Heat Power Registration in Experiments with High Voltage Electrolysis Cell
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A. B. Karabut (Samar+ COMPANY, Russia)

ThA2-2	16:30 - 17:00	Demonstration
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Francesco Celani (Frascati National Laboratories, Italy)

August 17, 2012 [Friday]

FrM1	Date & Time	August 17, 2012 (Friday) / 09:00 - 10:30
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Session Chair	Prof. Seong Ihl Woo (KAIST, Korea)	
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FrM1-1	09:00 - 09:30	Public Policy Planning for Broad Deployment of Cold Fusion (LENR) for Energy Production Thomas W. Grimshaw (The University of Texas, USA)
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FrM1-2	09:30 - 10:00	Potential Economic Impact of LENR Technology in Energy Markets Alexander Kleehaus (Ecorium GmbH, Germany) and Christian Elsner (CHM, Germany)
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FrM1-3	10:00 - 10:30	The Future May Be Better than You Think Jed Rothwell (LENR-CANR.org, USA)
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FrM2	Date & Time	August 17, 2012 (Friday) / 11:00 - 12:30
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FrM2-1	11:00 - 11:30	Is Commercial Low Energy Nuclear Reaction (LENR) the Real Deal? Tyler van Houwelingen (AzulStar, Inc., USA)
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FrM2-2	11:30 - 12:30	Commercialization and Worldwide Impact Panel Discussion
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August 13 - 17, 2012 [Monday - Friday]

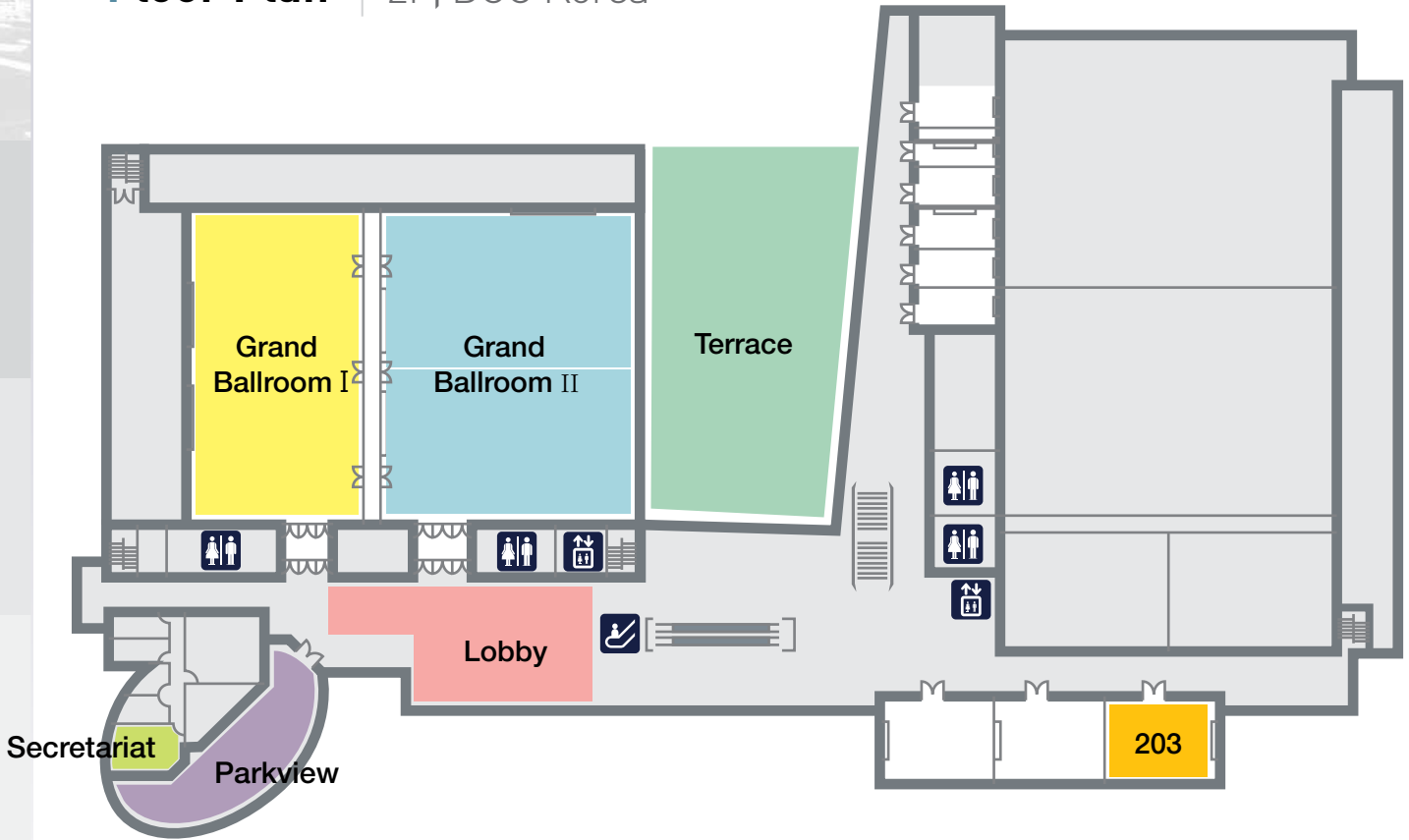
- P_1005 Anomalous Metals in Electrified Vacuum**
Edward Esko (Quantum Rabbit LLC, USA)
- P_1006 Geological Aspects of Cold Fusion**
Tarasenko G. (KGUTI name Sh. Esenov., Kazakhstan)
- P_1012 LENR and Nuclear Structure Theory**
Norman D. Cook (Kansai University, Japan) and Valerio Dallacasa (Verona University, Italy)
- P_1018 Examples of Isoperibolic Calorimetry in the Cold Fusion Controversy**
Melvin H. Miles (University of LaVerne, USA)
- P_1020 Neutron Burst Emissions from Uranium Deuteride and Deuterium-Loaded Titanium**
Songsheng Jiang, Xiaoming Xu, Liqun Zhu, Shaokang Gu, Xichao Ruan, Ming He, Bujia Qi (China Institute of Atomic Energy, China), and Xing Zhong Li (Tsinghua University, China)
- P_1021 Evidence-Based Public Policy for Support of Cold Fusion (LENR) Development**
Thomas W. Grimshaw (The University of Texas, USA)
- P_1023 Quasi-Stability Theory: Revealing Various Atomic Breakups and Cold Fusion**
Ken Naitoh (Waseda University, Japan)
- P_1026 Search for Advanced Simulation Model of Cascade Vortices under Beneath the Electrode Surface**
Hiroo Numata (Tokyo Institute of Technology, Japan)
- P_1027 Numerical Simulation of Vortex and Cascade of Vortices Appeared under Beneath the Sub-Surface Layer**
Hiroo Numata (Tokyo Institute of Technology, Japan)
- P_1029 A Self-Consistent Iterative Calculation for the Two Species of Charged Bosons Related to the Nuclear Reactions in Solids**
Ken-Ichi Tsuchiya (Tokyo National College of Technology, Japan)
- P_1030 Features and Giant Acceleration of "Warm" Nuclear Fusion at Interaction of Moving Molecular Ions (D-...-D)⁺ with the Surface of a Target**
Vladimir Vysotskii (Kiev National Shevchenko University, Ukraine), Alla Kornilova, and Vladimir S. Chernysh (Moscow State University, Russia)
- P_1031 On the Possibility of Application of Widom-Larsen Theory for Analysis and Explanation of Rossi Experiments**
Vladimir Vysotskii (Kiev National Shevchenko University, Ukraine)

- P_1033 Stimulated (B11p) LENR and Emission of Nuclear Particles in Hydroborates in the Region of Phase Transfer Point**
Vladimir Vysotskii (Kiev National Shevchenko University, Ukraine), Alla A. Kornilova, Vladimir S. Chernysh, Nadezhda D. Gavrilova, and Alexander M. Lotonov (Lomonosov Moscow State University, Russia)
- P_1038 Femto-Atoms and Transmutation**
Andrew Meulenberg (National Advanced IPv6 Centre, Malaysia) and William Collis (ISCMNS, Italy)
- P_1039 Deep-Orbit-Electron Radiation Emission in the Decay from $4H^*$ to $4He$**
A. Meulenberg (Universiti Sains Malaysia, Malaysia) and K. P. Sinha (Indian Institute of Science, India)
- P_1040 Excess Heat Triggered by Current in a D/Pd Gas-Loading System**
Jian Tian, Bingjun Shen, Lihong Jin, Xinle Zhao, Xin Lu, and Hongyu Wang (Changchun University of Science and Technology, China)
- P_1044 Nuclear Reactions in Liquid Metal: An Approach to Dense Plasma Fusion**
J. Kasagi (Tohoku University, Japan)
- P_1045 Models for Excess Heat in PdD and NiH**
Peter Hagelstein (Massachusetts Institute of Technology, USA) and Irfan Chaudhary (University of Engineering and Tehcnology, Pakistan)
- P_1047 Molecular D_2 near Vacancies in PdD and Related Problems**
P. L. Hagelstein (MIT, USA)
- P_1048 Basic Physics Model for PdH and PdD Thermodynamics**
Peter Orondo and Peter Hagelstein (MIT, USA)
- P_1049 Empirical Models for Excess Power in Two-Laser Experiments**
Dennis Letts(none, USA) and Peter L. Hagelstein (MIT, USA)
- P_1050 Detecting Energetic Charged Particle in D_2O and H_2O Electrolysis using a Simple Arrangement of Cathode and CR-39**
H. Aizawa, K .Mita, D. Mizukami, H. Uno, and H. Yamada (Iwate University, Japan)
- P_1054 Experimental Evidence for Bursts of Heat, Particles and Sound in LENR Experiments**
David J. Nagel (The George Washington University, USA) and Mahadeva Srinivasan (Bhabha Atomic Reserarch Centre (Retired), India)
- P_1056 Cold Fusion Plasmoids**
Edward Lewis (sciencejunk.org, USA)
- P_1059 Cold Fusion is a Scientific Revolution: the Usefulness of this Knowledge**
Edward Lewis(sciencejunk.org, USA)
- P_1060 Nickel Transmutation and Excess Heat Model using Far-From-Equilibrium Blackbody Theory and Reversible Thermodynamics**
Daniel Szumski (Independent Scholar, USA)

- P_1061 A Change of Tritium Content in D₂O Solutions during Pd/D Co-Deposition**
Kew-Ho Lee, Hanna Jang, and Seong-Joong Kim (Korea Research Institute of Chemical Technology, Korea)
- P_1063 The Possibility of the Reuse of Nano-Pd Particles for Solid Fusion**
X. F. Wang and Y. Arata (Osaka University, Japan)
- P_1064 Generation of Short-Lived Isotopes in Experiments with Bismuth Salts**
Dmitry Baranov and Olga Baranova (Russia)
- P_1070 Erzion Model Interpretation of the Experiments with Hydrogen Loading of Various Metals**
Yury Bazhutov (Terrestrial Magnetism, Ionosphere and Radiowave Propagation Institute (IZMIRAN), Russia)
- P_1072 Cold Plasma in Multibubble Sonoluminescence**
Sung Je Hong (Kepco E&C, Korea) and Jae Young Lee (Handong Global University, Korea)
- P_1075 Forcing the Pd/¹H-¹H₂O System into a Nuclear Active State**
Stanislaw Szpak (Retired, USA) and Frank Gordon (SPAWAR(retired), USA)
- P_1077 Deep-Electron Orbits in Cold Fusion**
A. Meulenberg (National Advanced IPv6 Centre, Malaysia) and K P Sinha (Indian Institute of Science, India)
- P_1080 Research into Excited Long Lived 0.6 – 6.0 keV Energy Levels in the Cathode Solid Medium of Glow Discharge by X-Ray Spectra Emission**
A. B. Karabut (Samar+ COMPANY, Russia)
- P_1083 Low-Energy Electroweak (EW) Physics (in cavities) in Lattices and Fluids**
V. Godbole (unaffiliated, Germany)
- P_1084 Surface Effect for Gas Loading Micrograin Palladium for Low Energy Nuclear Reactions LENR**
Heinrich Hora (University of New South Wales, Australia), George H. Miley (University of Illinois, USA), Mark A Prelas (University of Missouri, USA), Kyu Jung Kim, and Xiaoling Yang (University of Illinois, USA)
- P_1087 A Rugged, Isoperibolic Calorimeter for Electrochemical and Gas Loading Experiments**
D. A. Kidwell, D. D. Dominguez (Naval Research Laboratory, USA), A. E. Moser (Nova Research, Inc., USA), V. Violante (ENEA, Frascati, Italy), and D. L. Knies (Naval Research Laboratory, USA)
- P_1094 Sonofusion's Transient Dense BEC Clusters**
Roger S. Stringham (First Gate Energies, USA)
- P_1095 Patents and Cold Fusion**
David J. French (Secound Counsel Services, Canada)

- P_1098** **Changes in the Element Compositions of Pd and Re Specimens Irradiated in Dense Deuterium by γ -Quanta with Boundary Energy 23 MeV**
Alexander Yurievich Didyk (Joint Institute for Nuclear Research, Russia) and Roland Stanislaw Wiśniewski (National Center of Nuclear Research, Poland)
- P_1099** **Electrochemical Deuterium Absorbed at Palladium Nanoparticles - Carbon Composite Electrode**
Dawei Dong (Xiamen University, China), Shan Jin (Huazhong Normal University, China), Yue Wang, and Zhong-Qun Tian (Xiamen University, China)
- P_1106** **Deposition of Pd Nano-Particle on Silica for High Surface Area and Thermal Stability for Gas Loading Excess Heat Generation**
Seunghwan Seok and Do Hyun Kim(Korea Advanced Institute of Science and Technology, Korea)
- P_1107** **Ni-H Replication**
Peter Mobberley (Advanced Energy Technologies, UK)

Floor Plan 2F, DCC Korea



Grand Ballroom I		Grand Ballroom II		Parkview	
Use	Date	Use	Date	Use	Date
Banquet	8/16	Opening/Plenary	8/13	Lunch	8/13~16
		Oral Session	8/13~17		
		Poster Session	8/13~17		
		Coffee Break	8/13~17		

Lobby		Terrace		203	
Use	Date	Use	Date	Use	Date
Registration	8/13~17	Welcome	8/12	IAC Meeting	8/14
Internet Lounge	8/13~17	Reception			

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ICCF-17

The 17th International Conference on Cold Fusion

The Preprint of the ICCF-17 Proceedings

ICCF-17 Secretariat

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