

# THE 2019 WHO'S WHO of LENR - COLD FUSION

Compiled by Alan Smith. Based on sources including publications by Anthropocene Institute, LENR-Forum, ECat World, LENRIA and condensed-plasmoids.com. For amendments and additions please contact me via email. E&OE!

## I2HMR - ACTIVE

- Nicolas Armanet (and colleagues), researching LENR in Hydrogen in Metals

## **AEROSPACE CORPORATION (USA): ACTIVE**

- One of the presentations at the recent ICCF-21 conference was by Edward J. Beiting of the Aerospace Corporation, a California R&D non-profit on "Investigation of the Nickel-Hydrogen Anomalous Heat Effect"
- Privately funded with support from others inc. NASA (?).

## **AIRBUS (EU) : STATUS CURRENTLY UNKNOWN**

- Published a couple of LENR-linked patents, hosted a conference at their Toulouse (France) HQ, research under supervision of J-F Geneste, now working elsewhere.

## **ATOM-ECOLOGY/ECALOX Ltd. (UK): ACTIVE**

- Working on hydrogen isotope/mixed metal cold fusion, Ecalox also works on hydrogen catalysis and production and has interests in recycling difficult materials.
- Cold fusion lead Russ George, working with Alan Smith, Martin Moore and others.

## **Baoding Sino-US Science and Technology Innovation Park STATUS UNKNOWN - NO RECENT NEWS.**

- From public press release in Chinese, there was a partnership between Industrial Heat LLC and this state supported park.
- In the press release, Nickel Hydrogen Energy is clearly named
- Recent suggestion from Dewey Weaver (IH) is that due to IP concerns this relationship has been terminated.

## **Brillouin Energy. :ACTIVE - Robert Godes: Founder, President and CTO.**

- Proprietary Q-Pulse technology based on Ni/H LENR
- Wants to introduce a commercial LENR reactor into the energy market and as of March 2019 seeks further funding to do this.
- Engaged with leading scientists and national labs, including Michael McKubre and Francis Tanzella formerly of SRI International to report on developments.
- Carl Page (brother of Alphabet/Google CEO Larry Page) invested in Brillouin Energy and is one of its board members

## **BLP/Brilliant Light Power Inc. USA :ACTIVE.**

- Attracted more than \$75 million of venture capital.
- Claim their devices are not based on LENR, but on "Hydrinos" (shrunken hydrogen atoms)
  - Founded and led by Dr. Randell L. Mills

## **Chemonuclear Fusion Project ACTIVE (as of Nov 2018) Phil Lang USA**

- A crowd funding financed initiative to develop molten lithium fusion.
- Principal: Phil Lang

**Clean Nuclear Power LLC**: ACTIVE. Lugano-based (Switzerland) start-up developing clean LENR energy.

- Working with LENR Cities Suisse funded by George de Montmollin
- Yogendra Srivastava, Allan Widom

**Clean Planet Inc.** ACTIVE. **Hideki Yoshino**, investor, founder and CEO. Co-operates with Japanese government and major Japanese companies/universities. Mixed private/corporate/government funding

- Aim to prototype a commercial LENR/CMNR device. Hideki Yoshino and Masanao Hattori.

**Cold Fusion Power International.** Russia ACTIVE.

- High energy/fundamental physics laboratories.
- Edward Tsyganov .

**EarthTech International** USA. ACTIVE.

- A privately funded R&D group exploring novel ideas in physics.
- Principals Harold Puthoff, Scott and Marissa Little.

**Elforsk** Denmark: ACTIVE.

- **Research institute funded by Danish energy companies.**
- **Interests in hydropower and also non-conventional technologies.**

**Energiforsk (Energy Research Institute)** Stockholm, Sweden: ACTIVE.

- Swedish energy industry research institute.
- Principal: Magnus Olofsson

**Etiam Oy/Ultrafusion/ Norront Fusion:** Finland. ACTIVE

- Patent on creating Rydberg matter (EP2783369)
- Principals include Leif Homlid and Sindre-Zeiner Gundersen.

**ENEA** Italy, ACTIVE

- National agency for new technologies, energy and sustainable economic development.
- Vittorio Violante.

**First Light Fusion.** Oxford UK: ACTIVE

- Developing a cavitation process for achieving practical and affordable fusion energy.
- Dr. Nick Hawker and Yiannis Ventikos.

**Guangzhou Co-Energy Technology Company Ltd.** Lin Xidan China. ACTIVE?

- Engaged in the development of LENR technology.

**Global Energy Corporation (GEC)** : ACTIVE

- Dr. **Jay W. Kim**, CEO and Chairman
- Dr. **Larry Forsley** see 'JWK' above, Executive VP and Senior Scientist
- Builds upon 20 years of R&D and product development in conjunction with **US Navy SPAWAR** (Space and Naval Warfare Command) carried out by Pamela A. Boss, Frank E. Gordon, Stan Szpak and other SPAWAR scientists
- GEC is negotiating 250 MWe and 5 GWe reactors, **to be deployed on-site of nuclear power plants using nuclear waste as fuel**

- Genie hybrid fusion/fission reactor is claimed to be inherently safe and clean and is powered with used fuel from conventional atomic plants. Under development with NASA support/input.
- Subsidiary **GEC Global LLC** is building conventional power plants (coal, gas, diesel, hydro power, solar, wind, bio, geothermal, and wave energy).

**George Washington University. USA: ACTIVE.**

- "LENR Energy and Spectroscopy Laboratory". In Washington DC.
- Has a small externally and internally funded research program.
- Contact: David Nagel.

**Heliorite AB: Sweden: ACTIVE.**

- A private LENR science and technology development company.
- Principal Birger Johansson.

**HMRI R&D. USA : ACTIVE**

- Founded in NC USA in 2015 Antonia La Gatta and J.T. Vaughan (IH) are directors. Also some possible association with Industrial Heat/ Texas Tech/Seashore Research.

**Hydrogen Engineering Application & Development Company (HEAD) Japan: ACTIVE**

- Independent research unit supported by Clean Planet.
- Tadahiko Mizuno and Hideki Yoshino.

**Hydro Fusion Ltd. ACTIVE: Licensees of Rossi/ Leonardo Corporation's LENR devices. Sweden**

- Magnus Holm and Hans-Peter Bermin

**Hydrobetatron. Italy, ACTIVE.**

- **Principal Researcher Ubaldo Mastromatteo.**
- **Allied with ST Microelectronics.**

**High Mesa Technology USA ACTIVE. Tom Claytor**

- Provides contract assistance for LENR research experiments.

**Iwate University Department of Electrical Engineering and Computer Science Japan ACTIVE.**

- LENR discovery programme working with Pd-Ni, Pd-Ag and Pd-Li

**JWK (USA): ACTIVE. Dr. J.W. Khim**

- Government and private test and verification services, developing 'clean nuclear technology'.
- Affiliates include Dr. Larry Forsley.( See also Global Energy Corp.)

**Tohoku University, Japan. ACTIVE**

- A national university housing the Condensed Matter Nuclear Reaction Joint Research Division.
- Researchers include Yasuhiro Iwamura, Takehiko Itoh and Jirohta Kasagi.

**JET ENERGY, Inc. : USA: ACTIVE - See also NANORTECH Inc. (below)**

- **Proprietary technologies to increase the control, rate, and to monitor LENR cells**

- Developed LENR metamaterials including the PHUSOR®-type component.
- CMORE Spectroscopy using antiStokes detects active state of LENR systems.
- Coupled systems to Stirling motors
- Mitchell Swartz, USA.

**NANORTECH, Inc. : USA:ACTIVE**

- NANORTECH, Inc. is a spin-off of JET Energy manufacturing dry preloaded NANOR®-type LENR components.
- Designs/assembles support systems for imaging, monitoring, and driving NANOR®-type LENR components.
- Manufactures unique and custom LENR-active metallic nano-particles.
- LENR cells (NANOR, PHUSOR Etc) using metallic nano-particles.
- Has support from Prof. Peter Hagelstein, MIT. CTO/CEO: Dr. Mitchell Swartz

**LD-Brane SRL** an R&D company focused on LENR technologies. ACTIVE

- Luca Gamberale Italy & Nicolas Chauvin Switzerland.

**LENR Cars, Switzerland: Nicholas Chauvin :ACTIVE**

- Developing mobile LENR electric generators to power electric vehicles.

**LENRGY,Texas USA : ACTIVE**

- Principal Thomas Grimshaw
- Consulting/Services company.

**LockTherm LLC** USA & RUSSIA: ACTIVE

- LockTherm is an Ni-Li-H LENR R&D team.
- Sergei Godin and Andrei Hrischanovich Russia.
- Alexander Rios and Victoria Stephens USA

**Lattice Energy LLC: ACTIVE**

- President and CEO: Lewis Larsen
- Integrated thin-film LENR power devices with high-temperature electrodes as heat source

**LUX Energy Ltd, Deep River Ventures (DRV): ACTIVE.** Affiliates of Industrial Heat/Dewey Weaver.

- Seek LENR technologies to license, acquire or invest in.

**Mitsubishi Heavy Industries (MHI) Japan : ACTIVE**

- Multinational engineering, electrical equipment, and electronics corporation
- Key staff: Shigenori Tsuruga, Kenji Muta, Yutaka Tanaka, Tadashi Shimazu, Koji Fujimori, Takehiko Nishida.

**NANORtech: USA ACTIVE**

- See JET Energy above.

**NeoFire** Peter Björkbom Sweden.

- Working to develop and market a new energy source based on LENR.

**Nickel-Hydrogen Research Center China. STATUS UNKNOWN.**

- Located in the Huayan IndustrialPark on the southwest side of Tianjin, China.

**Newinflow, Russia, ACTIVE**

- The company aggregates the research efforts of disparate scientific groups in Russian universities
- Principal Researchers: Anatoly Klimov, N.Magnitskii & Dr. N.Evstigneev

**NUCAT Energy, LLC :ACTIVE**

- Prof. David J. Nagel
- Offers consulting services, very much a friend of the field.

**Nukey Europe Ltd. UK. ACTIVE**

- CEO Angelo Ovidi
- Provides guidance on using LENR technologies to remediate nuclear waste.

**Purratio AG: Germany. ACTIVE**

- Solfire LENR technologies for the controlled utilization of fusion energy.
- CEO Richard Reichmann

**PointSource USA : ACTIVE?**

- Curt Brown with Pam Boss, Larry Forsley (& Cravens patents)

**POWER HEAT ENERGY SRO. Czech Republic. ACTIVE**

- Filed patents on Ni-Li-H LENR systems.
- Oleg Olshansky , Emanuel Hubeny ( Cz ) ; Andrey Kolosov ( Ru ).

**Royal Dutch Shell PLC. Headquartered in the Netherlands: ACTIVE?**

- Pd-D Ben van Beurden France.

**SAFIRE Electric Sun Project. UK ACTIVE**

- Plasma-based fusion research – possibly LENR- but possibly not.

**Spazionica Italy: ACTIVE**

- An R&D focused LENR company working with Ni-H : Francesco Santandrea

**SEASHORE RESEARCH USA ACTIVE**

- Spun out of Texas Tech, principal LENR researcher Rob Duncan. Principal funder Bill & Melinda Gates Foundation.

**Sidney Kimmel Institute for Nuclear Renaissance (SKINR) at the University of Missouri : CLOSED**

- SKINR is dedicated to finding the origin of the anomalous heat effect in LENR reactions.
- Principal researcher. Dennis C. Pease.

**Swiss OxyHydrogen Energy (SOHO) Switzerland. ACTIVE.**

- LENR technology developer. Slobodan Stankovic, Gregory Krieger and Richard Anderson.

### **Southern Utah University (SUU) USA. STATUS UNKNOWN**

- SSU has a research program to develop methodologies for characterizing nuclear reactions.
- Principal researcher. Sangho Bok.

### **Technova (A subsidiary of Toyota Motor Corporation) ACTIVE**

- LENR R&D leader in providing research grants and advocating for government support.

### **Tohoku University Japan. ACTIVE.**

- A national university housing the Condensed Matter Nuclear Reaction Joint Research Division.
- Yasuhiro Iwamura, Takehiko Itoh and Jirohta Kasagi.
- Collaborates closely with 'Clean Planet'.

### **TET Laboratory of Experimental Physics Russia ACTIVE**

- Experimentalists working to develop devices based on plasma electrolysis, LENR and magnets.
- Andrew Hrischanovich.

### **TSEM, Italy. ACTIVE**

- **Antonio La Gatta**, founder and president plus Mike McKubre, Irving Dardik
- Focusing on energy, security and healthcare technologies
- Organizer of ICCF-19
- Seems to cooperate with Industrial Heat, MIT, and Texas Tech University

### **Unified Gravity Corporation USA :ACTIVE**

- Established to prove Hubert and Stephen Lipinski's research.

### **LENR INVESTORS**

#### **LENR Invest, Switzerland and USA:** Tyler van Houwelingen, CEO

- Invested in LENR Cars, Brillouin Energy, Lenuco LLC, NicHenergy
- Sponsor of E-Cat World
- Investments mainly to bridge the gap between lab demonstration and industrial prototype. Also interested in development and cross promotion of compelling LENR related Intellectual Property

#### **Quantum Potential Corporation (QPC) USA**

- LENR, fusion, plasma, cavitation technologies. Max Fomitchev-Zamilov

#### **Bill & Melinda Gates Foundation:** Close contacts to ENEA via Vittorio Violante

- Observes research in the field via Lowell Wood (who formerly worked with Edward Teller)
- Donated \$6M to 'Seashore Research / Texas Tech (Rob Duncan)

#### **Sunrise Securities, USA**

- NYC investment bank cited by Brillouin as an investor.

### **Industrial Heat LLC, USA.**

- An affiliate of Cherokee Investment Partners LLC.
- Their first major investment was in E-cat technology developed by Andrea Rossi. They have since parted company following disputes over IP, money, and verification of the tech.
- Woodford Investment Management LLP (UK) invested many millions of \$ with IH and has an on-going interest in LENR development
- Support a number of research projects in external labs.
- Principal contact Dewey Weaver

### **Kiva Labs**

- Edmund Storms (See also LENRGY) consults for Kiva Labs on LENR research

### **Carl Page/Anthropocene Institute.**

- Brother of Alphabet/Google CEO Larry Page
- Strong supporter of the field, which he knows well
- Invested in **Brillouin Energy** and is one of its board members.

### **Larry Page CEO Google/Alphabet.**

- Recently filed LENR patent and supporting work in the field.

### **IP Group. London UK.**

- **Investor in First Light Fusion (see above)**
- **Primary interest is collaboration with universities to source IP and invest in 'high risk' spin-offs.**

### **LENR Associations**

#### **MFMP : Martin Fleischmann Memorial Project Bob Greenyer (Europe), Alan Goldwater (USA) and others. ACTIVE**

- Group dedicated to researching LENR while sharing all procedures, data, and results openly online
- Wants to overcome the hurdle of institutional bias by crowd-funding

#### **The International Society for Condensed Matter Nuclear Science (ISCMNS), England. Dr. Bill Collis -Secretary. ACTIVE**

- Its stated mission is to promote the understanding, development and application of Condensed Matter Nuclear Science for the benefit of the public
- ISCMNS publishes the peer reviewed Journal of Condensed Matter Nuclear Science (JCMNS).
- Key organiser of LENR conferences in the ICCF series and smaller meetings.

#### **LENRIA: ACTIVE**

- The industrial association for LENR -formed to act as promotion and lobbying group
- Founded by Steve Katinsky and David Nagel.

- Principal researchers include Dr. Melvin H. Miles and Dr. M. Ashraf Imam
- Presently involved with LENRIA in Pd-B studies
- <https://www.lenria.org/contact-us>

### **Breakthrough Energy Coalition**

- Initiative launched in 2015 by **Bill Gates**, John Doerr, Jeff Bezos, George Soros, Mark Zuckerberg, Hasso Plattner, Richard Branson and others .
- Does not name “cold fusion”, “LENR” as an investment priority.
- Invests in where governments participate in the initiative ‘Mission Innovation’ and pushes for “clean energy” .

### **MAJOR COMPANIES ENGAGED IN LENR**

- Mitsubishi Heavy Industries, Yasuhiro Iwamura
- Mitsubishi Real Estate. Believed to part- fund Clean Planet Japan
- Toyota / Technova, Akito Takahashi
- Nissan, Nissan/Renault
- Airbus Defence and Space (Possibly not currently)
- Boeing Subsonic Ultra Green Aircraft Research (SUGAR)
- STMicroelectronics (SGS-Thomson), Dr. Ubaldo Mastromatteo
- National Instruments, Dr. James Truchard
- Siemens (silently)
- Exxon (silently)
- Shell (silently)

### **SOME EXPERIMENTERS/THEORISTS IN THE LENR – COLD FUSION FIELD**

- Dennis Bushnell, NASA chief scientist, Langley Research Center, LRC
- Andrew Meulenberg. Theoretician
- Jean-Luc Paillet. Theoretician
- Alexander Parkhomov, Russia - LENR Researcher.
- Lutz Jaitner, LENR researcher
- Anthony LaGatta, TSEM
- Mark Davidson – Theorist
- Dr. Brian Ahern, Ames National Laboratory.
- Dr. David Bianchini, University of Bologna
- Dr. Joseph Zawodny, NASA senior research scientist Langley Research Center
- Dr. Michael A Nelson, NASA LENR Space Applications Lead
- David Wells, NASA LRC, Aeronautical engineer.
- Fabrice David, France
- Gustave C. Fralick, Arthur J. Decker, and James W. Blue, NASA Lewis Research
- George Miley, University of Illinois, Department of Nuclear, Plasma, and Radiological Engineering
- Dr. Mike McKubre, SRI (now retired from SRI and working independently)
- Dr. Francis Tanzella, SRI (now retired from SRI and working independently)
- Russ George , Atom Ecology/Ecalox UK
- Prof. Peter Hagelstein, Electrical Engineering, MIT



- Dr. Mace, Los Alamos National Laboratory
- Dr. Francesco Piantelli, University of Siena, Possibly retired
- Dr. Giuseppe Levi , University of Bologna
- Dr. Christos Stremmenos, University of Bologna, Dept of. Physical and Inorganic Chemistry, retired
- Francesco Celani, Working with Japanese researchers. Now creating new initiative, see above.
- Dr. Frank Gordon, US Navy's Space and Naval warfare systems (SPAWAR), retired
- Dr. Sven Kullander, chairman of the Royal Swedish Academy of Sciences' Energy Committee, Professor emeritus High Energy Physics Uppsala University deceased
- Robert V. Duncan, Texas Tech University, Vice President for Research
- John Gahl, University of Missouri, Director Material Science Engineering
- Mark Prelas, University of Missouri, prof Nuclear Science
- Dr. Yeong E. Kim, professor physics Purdue University
- Prof. Koltick, Purdue University
- Prof. Reifenberger, Purdue University
- Richard Oriani, Professor Emeritus, Univ of Minnesota
- Hanno Essén, theoretical physicist Swedish Royal Institute of Technology, former chairman Swedish Skeptics Society.
- Bo Hoistadt: Emeritus Prof. Uppsala University Sweden
- David J. Nagel, Professor of Engineering & Applied science George Washington University
- Dr. Andres, Purdue University
- Yasuhiro Iwamura, Japan.
- Dr. L. Magro, ISPRA, the Institute for Protection and Environmental Research
- Stanley Pons, University of Utah & Southampton (retired)
- Akito Takahashi, advisor to 'Clean Planet' Japan
- State Senator, Bruce Tarr, Massachusetts
- Allan Widom, prof. Northeastern University
- Professor Violante, ENEA
- Dr. Vladimir Vysotskii, Kiev National University, Head of physics department
- Dr. Iraj Parchamazad, Chairman of the Chemistry University of LaVerne
- Dr. T. W. Grimshaw, Energy Institute, Univ of Texas
- Professor Michael Melich, US Navy.
- Alan Smith. Ecalox Ltd UK
- Vladimir Dubinko, Kharkov Ukraine
- Vittorio Violante. ENEA, Italy.
- Dennis Letts. USA.
- Thomas Grimshaw, LENR policy analyst, University of Texas.
- Klee Irwin USA – Quantum gravity research.
- Andrea Rossi, Leonardo Corporation
- Christy Frazier USA Infinite Energy Magazine/New Energy Foundation.
- Ruby Carat USA. Journalist, blogger, podcaster.
- Marianne Macy USA Journalist/Author
- William Collis Italy, CEO ISCMNS.
- Stephen Lipinski Unified Gravity Corp. USA
- Hubert Lipinski, Unified Gravity Corp.
- Anatoly Klimov, Russia.(New Inflow).
- Steve Krivit – New Energy Times

Ends – additions, corrections welcome, this is very much a draft. Alan Smith. April 4<sup>th</sup> 2019.

