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 Tolouse (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\textregistered-type component.
• CMORE Spectroscopy using anti-Stokes 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\textregistered-type LENR components.
• Designs/assemblys support systems for imaging, monitoring, and driving NANOR\textregistered-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.

LENRE 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


• 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 Industrial Park 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.
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. Upsalla 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 4th 2019.