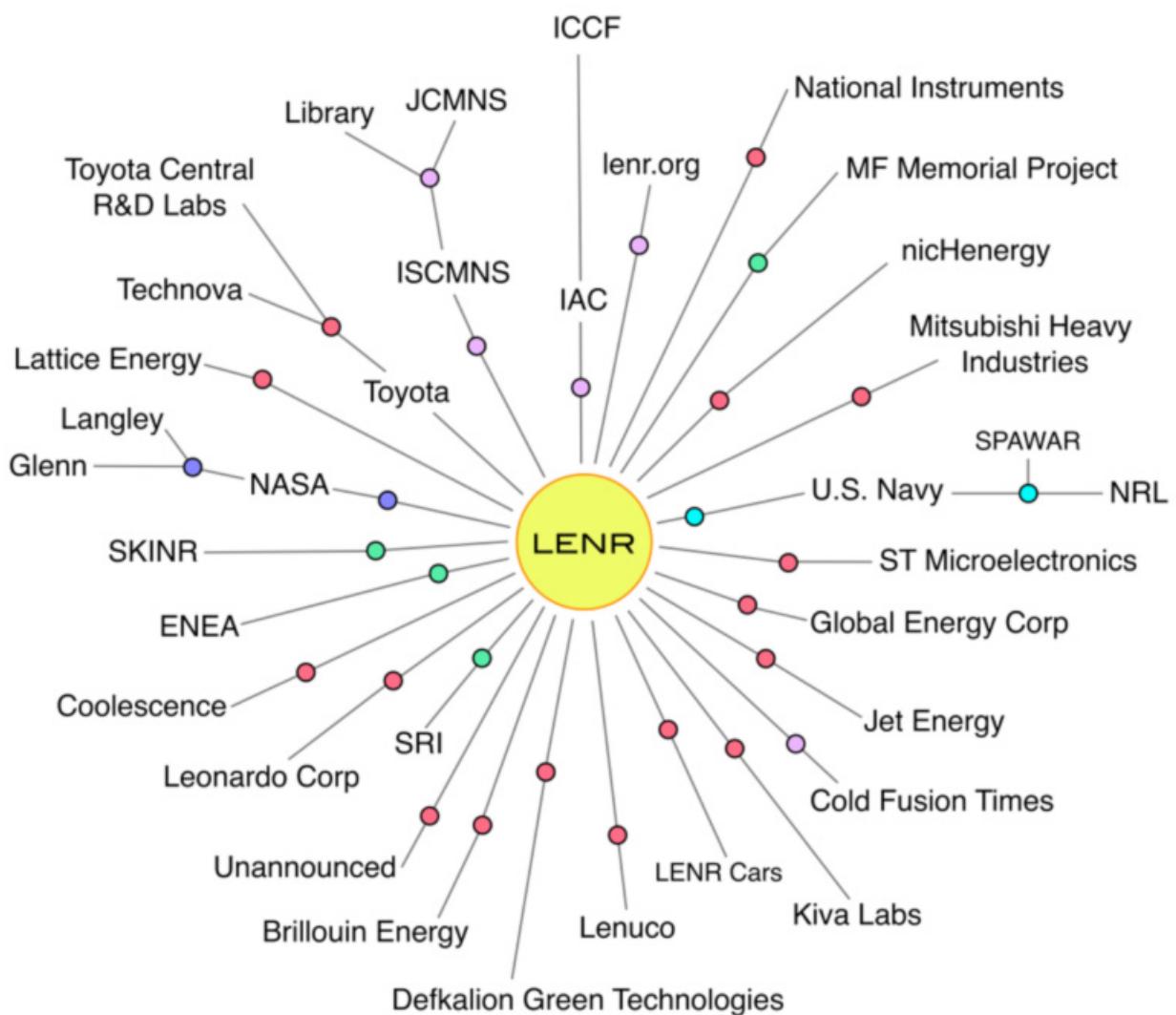


# Opportunities for Advancing the Science and Business of Low Energy Nuclear Reactions



Among the key institutions and organizations that are important, and even critical to the well being, productivity and expansion of the worldwide Low Energy Nuclear Reactions (LENR) community, there persists a set of enduring problems that restrict or otherwise limit their potential. Meanwhile, the emergence of a new set of commercial enterprises, asserted progress with Ni-H gas phase systems, the public advocacy of a major U.S. corporation and other developments, all hint of a possible tipping point in the status of the field. It is now an apropos time to reexamine, improve and reinforce the existing LENR entities, improve their relationships to one another, and to consider some additions:

ISCMNS - The International Society for Condensed Matter Nuclear Science. This Society, founded in 2004 by William Collis, offers three major contributions to the field of LENR. One is the web site of the Society at iscmns.org, which contains links to many important publications, as well as other information. Another is the organization of international workshops, ten of them to date. The last is the web-based and refereed Journal of Condensed Matter Nuclear Science (JCMNS,) which is edited without compensation by Jean-Paul Biberian. That journal is respected, and growing steadily in the number of published papers. However, the Society web site needs improvement and neither the Society nor the Journal are on solid financial bases. A means to provide stable funding would be highly desirable as LENR grows in global interest and importance.

ICCF - The International Conferences on Cold Fusion. Many diverse conferences on Cold Fusion (CMNS or LENR) have been held across the globe. Also, sessions on LENR have been a part of conferences held in the US by the ACS, APS and ANS, among others. However, the ICCF series of conferences is the primary venue for international scientific exchange in the field. It has been relentlessly useful, despite being run on an *ad hoc* basis without the stability of guaranteed adequate funding or institutional memory. With the increased interest in the science and potential applications of LENR, it is timely to put the series of conferences on more sound and enduring foundations both operationally and financially.

LENR.ORG Online Library. With over 3500 references on LENR and over 1000 downloadable files, the lenr.org web site maintained by Jed Rothwell has become the primary repository for scientific papers, as well as the unofficial online bibliography serving the field. The number of visits to the site and downloads of papers is increasing, comprised of U.S. and global users, many of whom are students and researchers according to their originating networks. Downloads during some months average over one per minute. Academic downloads are especially important as the future of the field depends on motivated young people. Operation of this indispensable web site depends on contributions, and on the funds and substantial time contributed by Rothwell.

Timely Opportunity – An Industry Association. Commercial endeavors to produce and deploy thermal and electrical LENR generators, if successful, could grow quite quickly to significant scales, and become a consequential new industry. To advance the adoption of the resulting technologies it will be necessary to develop industry standards and safety criteria for new commercial products, and professional standards for industrial organizations and practitioners. This raises the question about an association for the new industry. There exists a multitude of industry and professional organizations on the periphery of the LENR field, but none is likely to represent it without conflicts of interest, or without the baggage of their negative role in LENR's history. Additionally, there will be a growing need for provision of information, organization of commercial conferences or expositions, professional public relations to counter opponents and propaganda, and representation of LENR before Congress, regulators and the public. A new association focused on LENR is needed, and now is a very good time for its formation.

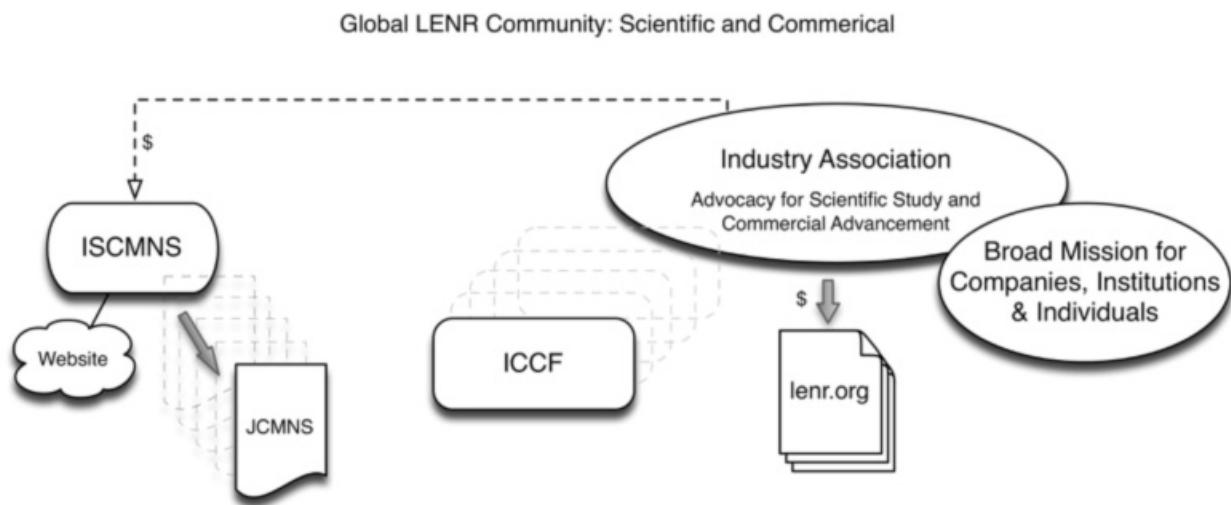
The prospective turning point in the field suggests and presents the opportunity to make broad and strategic changes in the existing and potential institutions for the purpose of reinforcing and expanding the shared foundation they represent. We see as both practical and advantageous the near-term affiliation of both the Intellectual Society and an Industrial Association to benefit the global community of people and organizations with interests in LENR. This new arrangement would serve academia, industry and government organizations, with major benefits for each of these relevant sectors.

The Intellectual Society would be an updated version of the International Society for Condensed Matter Nuclear Science, with adequate funding for a modernized web site, and stable funding for the Journal of Condensed Matter Nuclear Science.

The Industry Association would be a new not-for-profit organization to advocate for both scientific study and commercial advancement, which would help provide stable funding and management for the ICCF series, the lenr.org web site, and pursue other core missions. There would be membership services to dues-paying companies and individuals.

The Industrial Association would be set up in the U.S. However it would serve the global community of involved and interested persons and organizations.

The potential relationships are indicated in this figure. The funding flow from the LENR Industry Association to the ISCMNS for its web site and publication of the JCMNS, and funding of the web site lenr.org are to be determined.



The affiliation of these key elements should produce a critical mass from relatively disparate pieces, and give rise to more stable funding. This would make the approaches to, and decisions of potential funding sources and contributors both simpler and more evident. It would give them an option that has scale and excellent growth potential. The interrelationships also serve to mitigate the risk of uncontrolled divergence between scientific and commercial interests. They also provide a platform for coordination between them.

We anticipate the following advantages from the formation of the new Industry Association and its close affiliation with the enhanced ISCMNS:

- A combination that provides scale.
- Beneficial timing for nascent commercial activities.
- Increased interactions between scientific and business interests.
- Sharing of pre-competitive information among companies.
- Forum for development of industry standards and safety criteria.
- Body for accreditation and establishing professional standards for industry organizations and practitioners.
- Forum for the community of interested companies.
- Industry Public Relations Initiatives.
- Commercial conference or expositions.
- Membership in the United States Energy Association (USEA) and other bodies.
- Potential growth and increased vibrancy of the ISCMNS
- Improvement of the website of the ISCMNS.
- Adequate funding for the JCMNS journal.
- Financial stability for the key information resources such as lenr.org
- Institutionalization of the critical ICCF scientific meetings.
- Advocacy with students to encourage new researchers and to grow a new workforce.
- Access to webinars and short courses on LENR.
- Grassroots Initiatives (LENR Clubs, Alumni Outreach, etc.)
- Recruitment of students and professionals to further the field.
- Routine Media and Public Relations for the broad LENR community.
- Representation of the LENR community at all levels and venues.
- Global Government Relations.
- Collaboration between internal constituencies and external bodies.
- Context for communication, coordination and mediation between academia, governments and industry.

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July 2013

