The Way Forward Panel

- We need researchers -

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- We have been losing population of researchers in the CMNS field for more than ten years, gradually (rapidly !?).
- In Japan we have now about ten research groups actively working in the CMNS field, and exchanging information mainly at annual meetings of Japan CF-Research Society, and publishing Proceedings in English on our open Web-site (http://jcfrs.org).

| | E | G | D | P | В | T |
|--|---|---|---|---|---|---|
| T. Mizuno [Hydrogen Engineering Application & Development Co.] | | | | | | |
| S. Narita, H. Yamada, et al. [Iwate U.] | | | | • | | |
| J. Kasagi, et al. [Tohoku U.] | | | | | | |
| H. Miura | | | | | | |
| K. Tsuchiya, et al. [Tokyo National College of Tech.] | | • | | | | |
| H. Numata [Tokyo Inst. of Technol.] | | | | | | |
| T. Sawada [Nihon U.] | | | | | | |

Electrolysis (**E**), Gas loading (**G**), Discharge (**D**), Permeation (**P**), Beam-target interaction (**B**), Theory (**T**)

| | E | G | D | P | В | T |
|--|---|---|---|---|---|---|
| Y. Iwamura, S. Tsuruga and T. Itoh [Mitsubishi Heavy Industries] | | | | • | | |
| H. Kozima & M. Tada [Cold Fusion Research Lab.] | | | | | | • |
| T. Hioki, N. Takahashi, S. Kosaka, S. Ohshima & T. Motohiro [Toyota Central R & D Labs.] | | • | | • | | |
| N. D. Cook [Kansai U.] | | | | | | |
| A. Takahashi, A. Kitamura, et al. [Technova Inc.; Kobe U.] | | • | | | | • |

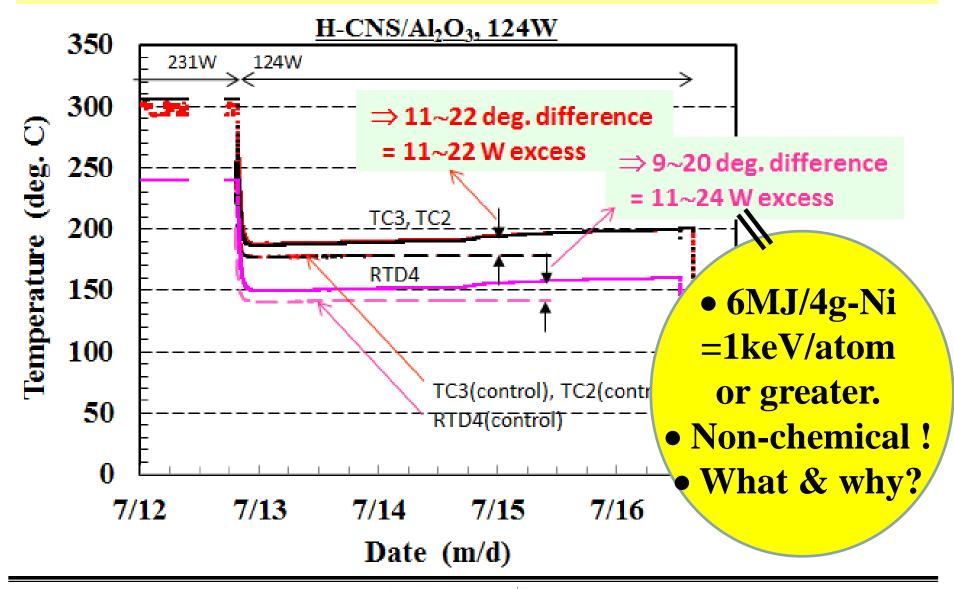
Electrolysis (**E**), Gas loading (**G**), Discharge (**D**), Permeation (**P**), Beam-target interaction (**B**), Theory (**T**)

Now we have a number of experimental groups which have obtained positive data of excess heat for Pd-D and Ni-H systems.

But now, the underlying physics of the phenomena is yet to be explained.

e.g.,

From: Kitamura, Takahashi, et al., Thursday morning session, ICCF18



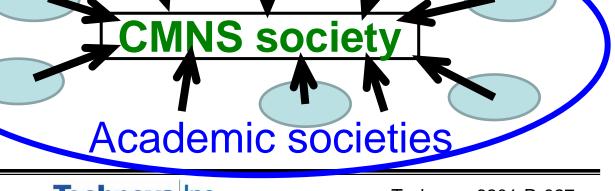
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Now, we may be at the start line of the way to apply the EH effect to a variety of technologies, *e.g.*, green and portable energy devices, remediation of radioactive wastes,

To proceed, we need to get support:

- from professional researchers in other fields;
 by reporting / presenting
- -not only reliable, repeatable and concrete results of the excess heat / transmutation data
- -but also the detailed experimental procedures to enable replication experiments.

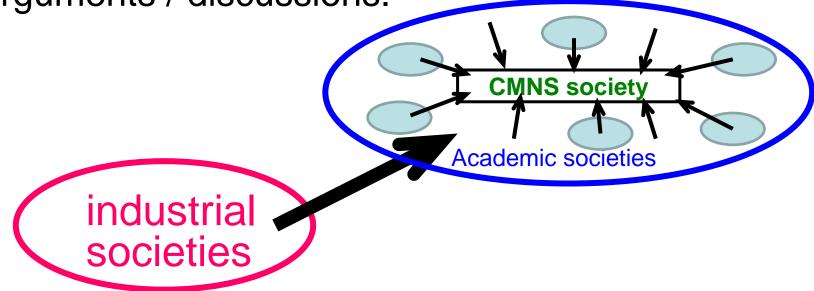
This will certainly serve for recovering the higher researcher population.



support also:

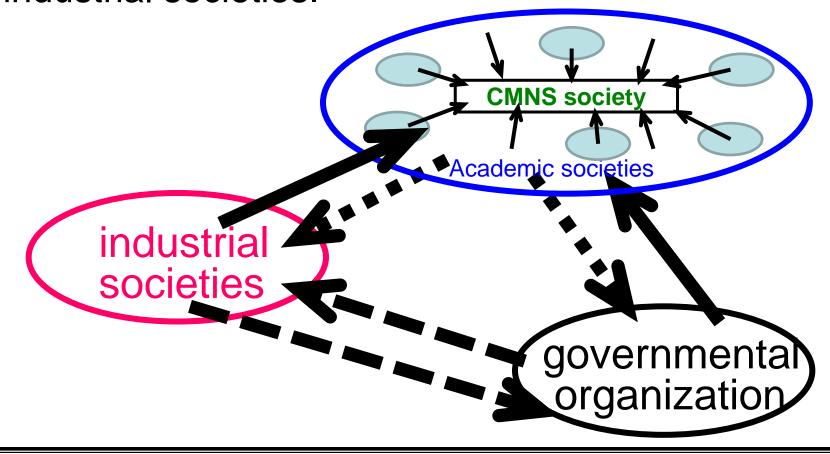
- from industries; by demonstrating
- -highly attractive and visible results of the emerging excess heat / transmutation by the actual apparatuses,

-rather than very precise / detailed assertions/ arguments / discussions.



support also:

 from governmental organization;
 with backups from both the academic societies and industrial societies.

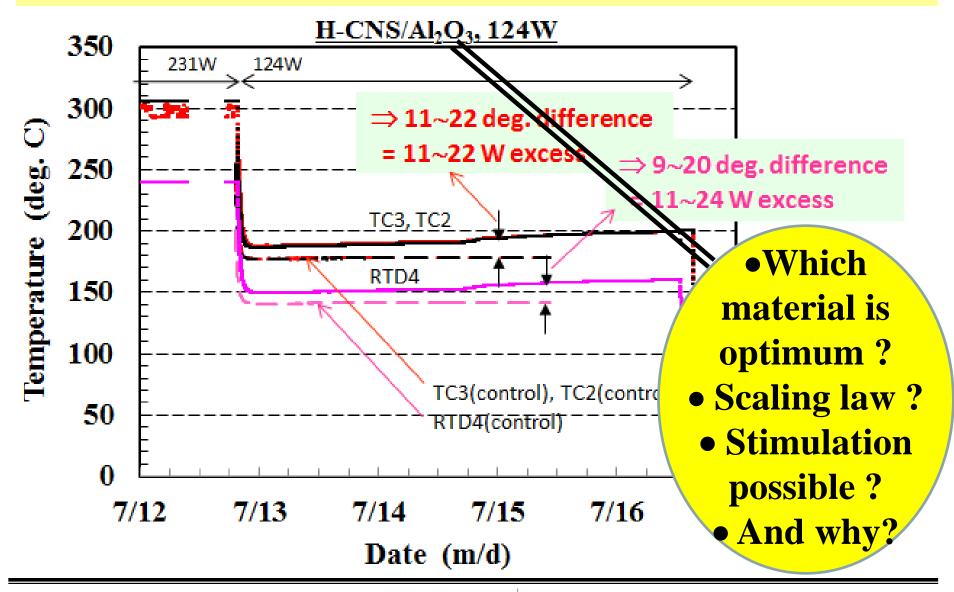


We need all the above items. Fortunately, these items would interact with each other to yield positive feedback effect;

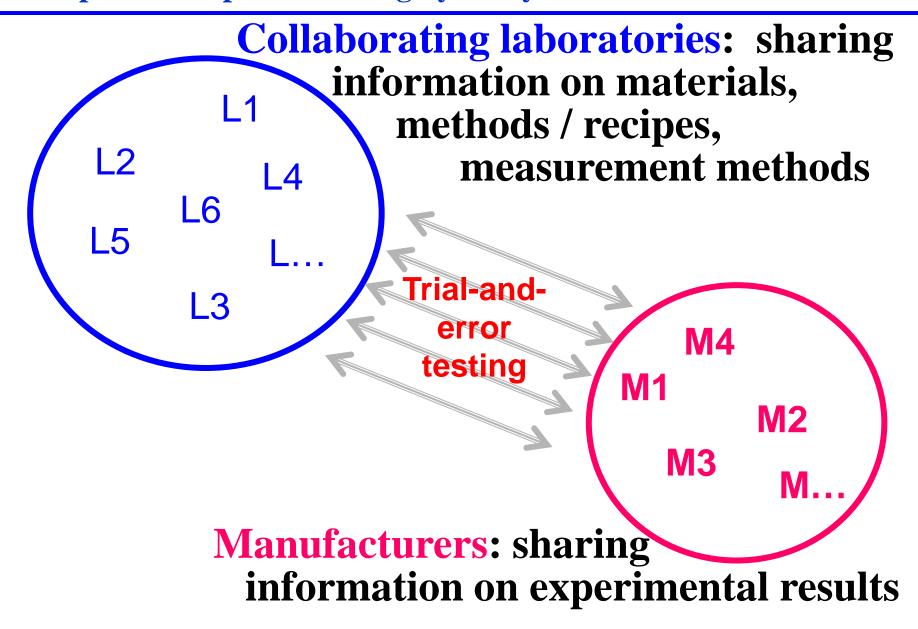
 Advancement in an item would promote additional advancement in the others. The CMNS team at Technova Inc. is now looking for a possibility to make a R&D consortium, especially based on our recent experiments with very hopeful EH results*.

*Kitamura, Takahashi, et al., Thursday morning session in this Conference, ICCF18.

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- In the laboratories we need fresh and ambitious researchers.
- Recently, young researchers are apt to choose nonpioneering research subjects in nonventurous fields.
- Regrettably, this is necessary for steady production of acceptable papers, which is necessary for making career to be promoted.
- We need researchers who can work aggressively without worrying about conventional career making.





Conclusion:

Experienced / Senior researchers
who have achieved a certain success
and therefore have little interest
in further promotion
might be more appropriate to call / invite
than "young" researchers.