

PESWiki.com -- Pure Energy Systems Wiki: Finding and facilitating breakthrough clean energy technologies.

[Ads by Google](#)

[Tesla Free Energy](#)

[Hydrogen](#)

[Tesla Generator](#)

[Renewable Energy](#)

[Alternative Energy](#)

STAGE 2 INNOVATIONS **\$100 Million** for **NEW & BIG Technology** [SUBMIT](#)

SOLAR power your **HOME** **\$89** per mo [click here](#)
FreeCleanSolar

[Home](#) [News](#) [Directory](#) [PowerPedia](#) [Congress](#) [Radio](#) [Video](#) [Newsletter](#) [Store](#) [Submit](#)

OS: Cold Fusion E-Cat Case Design Competition

From PESWiki

Andrea Rossi, the inventor of the E-Cat (Energy Catalyzer) has asked for the help of the alternative energy community, in designing the case for his home heating product. He has asked for the community to submit concepts, so he can purchase the best idea from the individual who submitted it!

By Hank Mills with Sterling D. Allan
Pure Energy Systems News
 October 10, 2011

Andrea Rossi is the inventor of the E-Cat (Energy Catalyzer), which is a cold fusion technology that utilizes only small amounts of nickel powder and hydrogen gas to produce huge amounts of energy, in the form of heat. The technology holds the potential to revolutionize the energy landscape without producing any pollution or emitting any radioactivity. Simply put, it is an ideal "green energy" technology. This technology will be launching in the next couple months, and the inventor of this novel device needs your assistance!

The first commercial E-Cat product will be a five kilowatt home heating unit. Although the internal workings of the product are complete, an attractive, cost effective, and practical design for the external case is needed. Rossi has requested that people submit design concepts to him, and he will purchase (for an as of yet undisclosed sum) the best design submitted. He promises not to use any design, without purchasing it from the person who originated the concept.



This is a great opportunity for the alternative energy community, that has been following this technology since the beginning of this year, to support Rossi's efforts and the commercialization of this commercial-ready, cold fusion technology.

Contents

- 1 What He Needs
- 2 Attributes
- 3 What to Submit
- 4 Where to Submit
- 5 Questions for Rossi
- 6 The Winner
- 7 Notice to Cynics, Naysayers, Skeptics, and Snakes
- 8 Lets Get Started
- 9 See also

What He Needs

Rossi has shared with us a clear description of what he is requesting. He needs a container that can hold the cold fusion system with dimensions of 40cm x 40cm x 40cm. This cube will already contain almost all the components of the cold fusion system, including the electronics, reactors, heat exchanger, and shielding. Since this device will be connected to the electric grid, the case will not require batteries or an inverter. It will also not require any type of turbine to produce electricity, because this product is only designed to product heat (hot water or steam) as an output.

Rossi has been specific about what he needs. Here are a few details.

- He needs a container to hold the cube, with appropriate places for the hoses to enter and exit the case.
- He needs a holder for the hydrogen canister, which will be located outside of the case.
- He needs a top cover that can be opened, to allow servicing by authorized technicians.
- He states that the cube already has all the necessary insulation, but I do not think that the box having insulating properties would be a bad thing. It could prevent it from heating up to the degree it cannot be touched, and would prevent more heat loss.
- There needs to be three slots for the pipes/hoses on one face of the unit to allow connections.
- The control panel will be separated from the body of the device.
- He has not yet come up with a logo, and has asked for those entering the competition to submit logos as well.
- A warning must be placed on the device that reads, "Do not open, only authorized technicians should provide maintenance and refueling services."
- He also needs a one inch hole on the top in the middle of the side opposite to the lateral face where the pipes are located, for water or steam.

Attributes

Here are some issues that I think people should consider when designing a concept to submit to the competition.

Eye Appeal

The device should look attractive. It should make a potential customer think, "That looks really awesome!" or "That looks cool!" Some potential ideas could be unique form factors, futuristic themes, retro themes, or themes that fit with what is taking place inside of the device. Also, very simple (but attractive) themes might be preferred.

Cost

The complete product is only expected to cost **500 Euros per Kilowatt**, so the case will be a fraction of that. However, the cost should not be so low that the quality of the case is not acceptable.

Awareness

The case could perhaps integrate a small panel or description that explains the product, shares the specifications of the model, tells what it does, and how to operate it.

Transport

The case should make transporting, moving, and handling the device as easy as possible. The inner cube that will go into the case is expected to be fairly heavy (60 kilograms), so ergonomics and anything else that could make transport of the device easier would be ideal. For example, what if someone wanted to pick a unit up and put it in his car, to transport it to another location? There should be wheels, grips, handles, or other design features that make it as easy as possible to move.

Special insulation

The case may feature unique forms of insulation that could make the device more efficient. It would also prevent someone from being burned if they touched the case. For example, what about using aerogel (<http://www.thermablok.com/>) to stop any heat from leaking out?

Readings

Some basic indicators could be placed on the device that show: the temperature of the outlet water, the amount of hydrogen remaining in the container, if the device is turned on or off, etc.

Official Logo

The E-Cat case should have some kind of logo on it. Rossi does not have an official logo yet, and if someone comes up with a good enough one, he may use it!

Conservation

The case might use recycled materials, green materials, or re-used materials. Of course the use of such materials should not get in the way of attractiveness, durability, robustness, or safety.

Keen

The definition of keen is "very penetrating and clear and sharp in operation; "an incisive mind"; "a keen intelligence"; "of sharp and active intellect." The case should be a smart design, which all fits together in a clear and obvious way.

Safety

Although the E-Cat is a safe device, the case should be designed with safety in mind. At some point the device will have to go through safety certification testing. The case should not be made of flammable materials, or produce hazards.

Please note that we will be posting updates to this page as we get more specific information from Rossi about the requirements of the case design, and what he is requesting in general. We also hope to obtain pictures, diagrams, and as many specifications as possible about the "cube" the case will hold. Such detailed information will aid those who would like to enter the competition.

With permission of the submitters, we would also like to post some of the better designs, so you can see what

Rossi is leaning toward, or certain attributes that he likes, and which he doesn't like.

What to Submit

Although there are no rules about what you have to submit along with your concept entry, everyone is encouraged to provide as much content as possible. For example, CAD (computer assisted design) drawings, wiring diagrams for any dials or gauges, image renderings, photos of mock-ups, detailed descriptions, component lists, material specifications, precise part lists, cost estimates, and other specifics would be very helpful to Rossi.

The entries should be submitted in English or Italian, as those are the two languages that Rossi is most familiar with.

Where to Submit

Rossi requested that you send submissions to his email at info@leonardocorp1996.com (mailto:info@leonardocorp1996.com?subject=E-Cat%20case%20design%20submission%20as%20referred%20by%20PESWiki.com) . Feel free to carbon copy them to us at rossi-design@pesn.com (mailto:rossi-design@pesn.com?subject=E-Cat%20case%20design%20submission%20as%20referred%20by%20PESWiki.com) if you want us to see it as well, being sure to tell us if you don't want it published, otherwise we will assume permission.

Feel free to post suggestions and teaser ideas down below this page in the comments section.

Rossi will be invited to view the comment section to review submissions, and the staff of this site may compose PESWiki pages for the most unique or attractive entries.

Questions for Rossi

Please post in the comment section any questions you have in regards to the specifications of the case, and we will try to get the answers. We cannot guarantee an answer, but we want to provide as much information as possible.

The Winner

We do not have the specifics about what Rossi will pay the winner for the design, when the payment would be made, or what the terms will be. This competition is in the spirit of helping bring an exotic technology to the market place. If your primary intention is to make money, this competition may not be for you. But then again, with how well this technology is likely to do, some kind of residual return could be worth very much, if you can get Rossi to agree to that.

Everyone should consider their entries a donation, and consider the possibility of getting paid for their design an "extra." Rossi has sacrificed years of his life, personal businesses, large sums of money, and not long ago his own personal home, to bring this technology to the market place. This project gives us a chance to begin rewarding his efforts. Let's keep the attitude of this competition friendly and helpful, not overly competitive.

Notice to Cynics, Naysayers, Skeptics, and Snakes

You are not welcome to participate in this competition. This competition is only for those who have enough confidence that the E-Cat technology works, that they are willing to spend time and effort to submit an entry.

We will not allow your negativity to interfere with the creative process. Any hostile posts or comments will be deleted.

Lets Get Started

We look forward to seeing your design for the case of the E-Cat home heating product!

See also

- [Directory:Andrea A. Rossi Cold Fusion Generator \(E-Cat\)](#)
- [News:Rossi Cold Fusion](#)
- [News:Real-Time Updates on the October 6, 2011 E-Cat Test](#)
 - [Archive Page 1 \(Oct 5,6\) | Page 2 \(Oct 7\)](#)
 - [Photos](#)
- [Directory:Andrea Rossi's Cold Fusion Energy Catalyzer \(E-Cat\): Frequently Asked Questions](#)
- [Directory:Andrea A. Rossi Cold Fusion Generator:Rossi's Hints](#)
- **[OS: Cold Fusion E-Cat Case Design Competition](#)**

COLD FUSION FOOTER:

- [Directory:Cold Fusion](#)
- [PowerPedia:Cold fusion](#)
- [News: Cold Fusion: 60 Minutes: More Than Junk Science](#)
- [DOE 2004 Cold Fusion Report](#)
- [PowerPedia:Foundations for Cold Fusion](#)
- [PowerPedia:Cold Fusion Theories](#)
- [Leslie Pastor's review of Cold Fusion](#)

COLD FUSION NEWS, BLOGS, MAGAZINES:

- [News:Cold Fusion](#)
- [News:Rossi Cold Fusion](#)
- [News:Nuclear](#)
- [Cold Fusion Times \(http://world.std.com/~mica/cft.html\)](http://world.std.com/~mica/cft.html)
- [Directory:Cold Fusion Now](#)
- [Directory:New Energy Times](#)
- [Directory:Infinite Energy Magazine](#)

LEADING COLD FUSION COMPANIES:

- [Directory:Andrea A. Rossi Cold Fusion Generator | FAQ | News](#)
- [Directory:JET Thermal Products](#)

COLD FUSION GENRES:

- Directory:Cavitation Heaters
- Directory:Sonofusion
- PowerPedia:Don Borghi's experiment

RELATED:

- Directory:Electrolysis
- Directory:Fusion
- Directory:Nuclear
- PowerPedia:Atoms
- PowerPedia:Transmutation
- Directory:Plasma
- Directory:Elements

- Other Open Source Projects
- Open Source News
- PESWiki main index
- PES Network Inc. (<http://pureenergysystems.com>)

Retrieved from "http://www.peswiki.com/index.php/OS:Cold_Fusion_E-Cat_Case_Design_Compition"

Categories: Cold Fusion | Nuclear | Andrea A. Rossi | E-Cat

Departments

- Do It Yourself
- Open Source Tech
 - Freddy's Cell
 - Bedini SG
 - Safe Haven Villages
 - Greenhouse Q.s
 - more ...
- Directory
(A-I | J-R | S-Z | Tree)
 - Alt Fuels
 - Anti-Gravity
 - Batteries
 - Beta Voltaics
 - Biofuels
 - BioDiesel
 - BioElectricity
 - Biomass
 - Body Electric
 - Brown's Gas
 - Cold Fusion
 - Conservation
 - Electrolysis
 - Electromagnetic OU
 - Electrostatic
 - Fuel Cells
 - Fuel Efficiency
 - Electric Vehicles

- Engines
- Hydroxy
- Fusion
- Geothermal
- Gravity Motors
- Home Generation
- Human Powered
- Hydro
- Hydrogen
- Joe Cells
- Lighting
- Magnet Motors
- Nanotechnology
- Nuclear
- Nucl. Remediation
- Oil
- Piezoelectric
- Plasma
- Plastic
- River
- Salt Water Mix
- Solar
- Solid State Gen.
- Storage
- Tesla Turbines
- Thermal Electric
- Tidal
- Vortex
- Waste to Energy
- Water
 - Water as Fuel
- Wave (Ocean)
- Wind
- Wireless Electricity
- Zero Point Energy
- MORE ...
- PowerPedia
 - Beta Voltaic
 - Cold Fusion
 - Nikola Tesla
 - more ...
- Conspiracy
- Suppression
- Buyer Beware
- Movies
- Humor
- Jobs
- Reviews
- Videos
- Store

Related

Ads by Google

- [Fuel Cell](#)
- [Solar Energy](#)
- [Magnetic Generator](#)
- [Energy Wheel](#)
- [Energy Machine](#)

Support

- [Help](#)
- [Login/Register](#)
- [How to Help](#)
- [Donate](#)
- [Advertise](#)
- [Contact](#)

Toolbox

- [What links here](#)
- [Related changes](#)
- [Upload file](#)
- [Special pages](#)

See also:

Ads by Google

- [Magnetic Energy Generator](#)
- [Zero Point Energy](#)
- [Wind Energy Electricity](#)
- [Heat Energy](#)
- [Heat Pipe Design](#)



(Pure Energy Systems) PES Network, Inc. on Facebook

Like 1,835



(Pure Energy Systems) PES Network, Inc.

http://peswiki.com/index.php/OS:Cold_Fusion_E-Cat_Case_Design_Competition



OS: Cold Fusion E-Cat Case Design Competition - PESWiki

www.peswiki.com

Andrea Bossi is the

Facebook social plugin



"When you're one step ahead of the crowd you're a genius.
When you're two steps ahead, you're a crackpot."
-- Rabbi Shlomo Riskin (Feb. 1998)

	Login	Your name here...
		<input type="text"/>

What's on your mind...

Add images

Follow

Cancel

Post

Echo 7 Items

Admin



georgehants

Hank and Sterling said.

You are not welcome to participate in this competition. This competition is only for those who have enough confidence that the E-Cat technology works, that they are willing to spend time and effort to submit an entry.

We will not allow your negativity to interfere with the creative process. Any hostile posts or comments will be deleted

Would it not now be worthwhile to remove from your general articles all people who just irrationally rant against everything, without affecting sensible criticism and general comments.

Many people do not get involved with comments as one has to have a skin like a crocodile to put up with the abuse from these sad people.

Pages where open fair comments and debate can freely take place can only help innovation in all areas.

Today, 8:59:16 AM – Flag – Like – Reply



direland

I am no designer but I would like to consider and be considered for a position as a service Tech when the time comes. What are the possibilities?

Today, 7:27:07 AM – Flag – Like – Reply



Gordon Docherty

Last week, elsewhere on this website, when I mentioned the idea of a thermite reaction, I was actually wondering if in such a reaction, when the nickel and metal oxide reach the right temperature immediately around the heating filament, a localized burst of energy (a powerful shock wave, or "explosion", enhanced by having Hydrogen hanging around dissociated Oxygen!) is released that dissociates other hydrogen molecules from H₂ into H₁ atoms that then slam into the atoms in the surrounding Nickel lattice, possibly assisted by Casimir cavities to focus and enhance the blast effect - a sort of reverse sonoluminescence process in that it is an expanding bubble that slams the hydrogen into the nickel atoms. This, in other words, is one of the major roles the catalyst plays, why it is needed, and why energy initially needs to be added until things get hot enough. It wouldn't be the first time that a blast (in this case, intense microblast, but the idea is the same) was used to push particles together...and I understand in those other cases, quite a lot of energy is released as neutrons slam into surrounding metal atoms that split producing more neutrons - once the initial energy is added, away the ride goes! If this is the case, then a set of filament wires between two plates that are then packed around with finely ground "porous Nickel" (for want of a better term) together with the "metal oxide" in the presence of a vacuum to which hydrogen is then added under pressure would enhance the effect by providing more opportunity for localized thermite reactions next to many (very hot) fine heating elements to react (interplay) with the hydrogen introduced under pressure - maybe this is also why this does not work when free oxygen is present, as it simply reacts with the hydrogen too soon, before the thermite reaction can occur and the focused blast waves created. Anyway, this all seems like something a decent chemistry lab should be able to explore without breaking the bank... Also, in the limit (wires getting smaller and more numerous, like hairs, and heating more instant), I guess this would make one super-powerful fusion-based energy release system - without the attendant run-away fission processes found in other super-powerful fusion-based energy release systems, scalable from a matchbox upward... (especially if a thermite induced light-speed energy "wave" could be created that traveled through the device, though preferably not radially, as that could be used to create a super-powerful implosion into a chamber of deuterium / tritium.)

Today, 4:21:00 AM – Flag – Like – Reply



Gordon Docherty

What I forgot to put in the above is that when I say atomic hydrogen slams into Nickel particles, I mean, of course, an H₁ atom (possibly maybe with the electron shell shrinking in the Casimir cavity as the "local space energy" reduces) being propelled with enough velocity to overcome the Coulomb barrier to "crash into" (i.e. fuse with = fusion) a nickel nucleus. Its only an idea, but it does have a certain appeal, for example, explaining why the (secret) catalyst is required, and how it

could play a geometrical / chemical / thermal role in INITIATING the fusion reaction of hydrogen with nickel, something that does not happen (or, at least, not happen to any great extent) when the catalyst is missing. Anyone have any thoughts on this?

Today, 9:22:25 AM – Flag – Like – Reply



georgehants

Take this opportunity of not being attacked by the crazies to compliment Hank and Sterling on their complete open-minded coverage of all energy happenings.

Things that would be kept hidden by science who seem frightened stiff to allow scientists to be able to make up their own minds what could be interesting and what not. That surely is an insult to every scientist.

The things you report on are then rightly in the open and can be followed or disregarded by anybody interested.

The number of people who wish to hide things is, shown by the comments on your pages very surprising.

Today, 2:21:59 AM – Flag – Like – Reply



georgehants

It would be nice to have a picture of Rossi's Nobel Prize medal on the sides and the names of all the experts who say it can't be real.

Today, 2:13:37 AM – Flag – Like – Reply



Brian

Maybe this new technology could develop in the same spirit as the Arduino microcontroller boards. Andrea Rossi provides the reactor chambre but the rest is an open source effort. This is the case with electronics, few if any open source initiatives has the ability to produce a chip like a computer CPU. But if the CPU is provided the open source community can do a lot around it, for instance, LINUX and the Arduino boards.

Today, 12:17:48 AM – Flag – Like – Reply

Social Networking by Echo

- This page was last modified 14:20, 10 October 2011.
- This page has been accessed 1,305 times.
- Content is available under GNU Free Documentation License 1.2.
- About PESWiki
- Disclaimers