

# Directors Are Needed To Establish The Healthy Housing Research Institute

by

Dr. Gary Johnson, gjohnson@ksu.edu

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I taught electromagnetic fields and electric power at Kansas State University for 28 years before taking early retirement in 1994 at age 55. I am also a licensed Professional Engineer in the state of Kansas, on retirement status. I have Electrical HyperSensitivity (EHS) that has progressed to the point that I cannot be around cell phones or WiFi without being sick that night and following day. I cannot go to a restaurant, library, or church. The good news is that when I avoid time-varying electric and magnetic fields, I feel good (for being over 80 years old!). I take no prescription drugs. My joints feel fine. I operate big toys (excavator and dump truck cleaning out ditches). I regularly promenade around the block with my wife of over 60 years of marriage, drawing envious looks from the widows, widowers, and divorcees.

I am in the planning stage of building a small house or cabin that is fully operational on DC (no 60 Hz AC), in the old mining town of Rockvale, Colorado (about an hour southwest of Colorado Springs). It will be true off grid (no utility lines, no propane truck), and zero carbon (no wood stove). Cooking and lighting will be accomplished with solar panels and a 128 VDC battery. The refrigerator and swamp cooler will operate from another solar panel and a 28 VDC battery. The computer will operate from yet another solar panel and a 12 VDC battery. Heating will be from a fourth set of solar panels with energy storage in a large tank of hot water, piped into PEX tubing under the slab floor. There will be no inverter or conventional charge controller because of the dirty electricity involved.

This house has promise for being the *healthy* house that I need, and the thousands of other people with EHS. It could become the wave of the future in Green housing because of the zero carbon feature. And it could become the darling of the Survivalists, where one still has heat and lights months after the gasoline and propane trucks stop running.

One problem is that such a DC cabin is not covered by the National Electrical Code (NEC). I will have to build it without a permit, or request a variance from the local planning board. There is nothing inherently unsafe about 128 VDC as compared with 120 VAC, so it is just a matter of time until the NEC is expanded to include DC houses. But first some DC houses need to be built and lived in to establish what *really* works. There are many electrical issues that need to be researched, far more than one *old* electrical engineer can investigate in his lifetime, so we need an organization, what I am calling the Healthy Housing Research Institute (HHRI), that can do the necessary research on an ongoing basis.

The words 'Research Institute' suggest a group of technically trained people, engineers and architects in this case, and maybe biochemists and MDs, who can write proposals and technical papers, and manage research projects. It will probably need to be structured as a

nonprofit organization. It would design a DC house, build it, and test its performance. From the test results, the design will be modified and another house built. After some number of houses (10? 20?) and an appropriate amount of time (5 years? 10 years?) we should be able to write a realistic Code for a DC house. Like the present NEC, it will be a living document, updated every few years as we discover better ways of building healthy houses.

So how do we establish such a HHRI? We need an office and lab. We need land where houses can be built and tested. We need people. And what about the tenants of these test houses? Should they form a second organization, perhaps a not-for-profit, to meet their needs? The Rockvale subdivision where these houses would be located is called the Mesa Traces Subdivision, so I will call this second organization the Mesa Traces Community (MTC).

I once belonged to the Kansas State Flying Club. It had about 70 members, about half faculty and half students. It owned 5 airplanes, worth perhaps \$100,000 at the time. I became a member by buying a hundred dollar share in the club, at which point I owned about \$1500 worth of the airplane fleet. There was a monthly assessment that could be applied to flying time, and an hourly rate for each of the planes. The charges were reasonable, but high enough to produce some 'profit'. Every few years another plane would be purchased with this 'profit'. No one individual benefited from the 'profit'. When I left the club, the value of my share had grown to perhaps \$1800, for which the club simply paid back my original \$100. The concept worked really well, in my opinion.

I would like to see a similar concept in place for the MTC. The tenants (vaguely like students) and the HHRI staff (vaguely like faculty) would own the 48 acres and whatever cabins had been built. They would review rental applications for available cabins, supervise maintenance, and enforce Community standards, similar to a Home Owners Association. They would establish a rental rate at something close to Fair Market Value, reasonable, yet high enough to yield some 'profit'. This 'profit' could be used to build another cabin, or perhaps some other capital investment that would benefit the Community (community center, greenhouse, etc.).

I have been working toward the establishment of a HHRI and a MTC since 2012. I own a one acre property with a three bedroom, two bath house, and a 30' × 48' fully equipped electronics lab, that could be the HHRI office and lab. I also own 48 acres that could handle up to perhaps 24 cabins, including the one mentioned earlier that I would live in. In addition, there are five lots (11 acres total) with town water and utility electricity that would be better used by full size houses owned by their occupants.

Once the HHRI is established, I could lease the house and lab to it for say \$1 per year. I could likewise lease the 48 acres and whatever improvements had been built on the property to the MTC. I could then gift the two properties to the HHRI and the MTC in my will. My heirs will receive adequate amounts from other assets. If this dream/plan actually works, I will have left a legacy that will benefit many with EHS.

The next step is to identify a Board of Directors for both the HHRI and the MTC, up to a dozen or so in each case, and a minimum of three. Directors for the HHRI need to

have a relevant technical background (engineer, physicist, biochemist, architect, electrician, house building foreman, etc.). Send me your resume. If using snail mail, the address is 1325 Parkmoor Rd, Canon City, CO 81212. (Rockvale uses P.O. Boxes, which I have not bothered to get). You can be a Director without any plans to relocate to Rockvale. I know some *good* engineers that have trouble using computers due to their EHS, but would bring considerable wisdom to the table. I will be glad to work with you by snail mail. It would be nice if you could physically get to Rockvale at least once, to meet me and see the operation.

There needs to be one director with the talent and motivation to be the next President of HHRI, who can lead it to become the resource that we need who are EHS. I will gladly hand over the reins to that person before I die, if it appears that person can do what is needed. If no such person appears, my kids will sell my Rockvale property to the highest bidder when I die. There will be a big auction of tools and meters. The double wall copper screen room will be stripped of copper and sold for scrap. The kids will then spend the money traveling the world and those with EHS will have lost an opportunity.

Directors for the MTC need not have any technical qualifications. I am thinking of people with EHS who would consider relocating to Rockvale and renting a newly built cabin. The house has two empty bedrooms and the shop has two more, so it might be possible to move here and provide labor for your cabin while it is under construction. The main requirement for a director is to be able to listen to arguments and make rational decisions. The EHS induced brain fog/paranoia needs to be manageable. If you want to live here, then I insist you figure out a way to visit the property and spend two or three days here to make sure it will work. Your body must be able to handle the low humidity, the altitude, the juniper trees, etc. None of us want you to up root your life to move to Rockvale, then have to move again because of some other factor. Write me a letter/email detailing your health history, educational and work background, and family situation. Would it be just you living here, or would you bring others?

Directors will not receive a salary, at least in the early years, but I might be able to reimburse out-of-pocket expenses. I am looking for people who are willing to spend a few hours per month for several years developing bylaws, filling out forms, writing proposals, and planning operational strategies for the HHRI and the MTC. Success is not guaranteed! A large fraction of the population think we are crazy, hence are unwilling to help. But with the right team, there is a chance that we can significantly improve the lives of many with EHS.

Review my website, [www.emsri.org](http://www.emsri.org), to see what I have been doing that relates to healthy housing. (I started the effort thinking I would call it the ElectroMagnetic Sensitivity Research Institute (EMSRI). 'Healthy Housing' is a broader and less objectionable title). Call me at 719 458 1111 during office hours 8:30-4:30, Mon-Sat, Mountain time with questions. The tower over which I get Internet service collapsed in July, resulting in a marginal signal for outgoing audio on my Voice Over Internet phone. I will be able to hear you fine, but you might have a problem understanding me. If so, I will give you my home phone number and a time slot when I can be reached at home.