



Harvard Physicist: ‘No Safe Way To Implement 5G’

5G technology is the holy grail of Technocrats who desperately want to enable a ubiquitous command-and-control network of IoT devices to control human populations en-masse. Thus, safety research on toxic effects is being aggressively suppressed. □ TN Editor

According to the telecom industry, 5G, the “5th Generation” wireless network, is required to give people the wireless freedom they crave and need. Described by HP as “blazingly fast,” 5G, which is 70 times faster than its predecessor, 4G, “will replace cable internet for good,” allowing you to download a two-hour high-definition movie in three seconds flat.¹

5G is also being touted as necessary to enable the development and proliferation of self-driving cars and other future technologies. However, as noted in a May 2019 Forbes article,² robocar designers are not, in

fact, relying on 5G for their development, and the cars themselves do not actually need that kind of bandwidth to perform the required functions.

Not one one red cent spent on safety testing

While “blazingly fast” 5G might sound attractive to many who have grown up in the internet era, there are significant health and environmental concerns relating to 5G radiation that are not being properly addressed, which may have profound implications both in the short and long term.

If increased internet speed and reliability are the end goal, then fiber optic connections would be a far better (and safer) way forward. Indeed, we need more wired connections and fewer wireless ones as it is. With 5G, microwave radiation exposures will so massively increase, there’s no doubt in my mind that mankind will eventually end up regretting its shortsightedness.

Remember that no one has problems with the faster speeds of 5G, no one. What any serious student of health has concerns with is that the data are being distributed wirelessly, when in most cases the data could be distributed easier and less expensively over fiber optic cables.

No Safety Studies Have Been Done

Unlike the 4G technology currently in use, which relies on 90-foot cell towers with about a dozen antenna ports on each, the 5G system uses “small cell” facilities or bases, each with about 100 antenna ports.³

These cell bases will be mounted to already existing infrastructure such as utility poles. Ultimately, many if not most homeowners can expect to end up with a 5G cell base mounted right outside or very near their home.

As noted by a Federal Communications Commission representative during a February 6, 2019, senate commerce hearing (above), no 5G safety studies have been conducted or funded by the agency or the telecom industry, and none is planned.^{4,5}

In short, there's no telling exactly what might happen to our ecology and the people being exposed to this novel wireless technology 24/7, once it's deployed. As noted by Dr. Cindy Russell,⁶ executive director of Physicians for Safe Technology, in her August 2018 paper in the journal *Environmental Research*:⁷

"Like other common toxic exposures, the effects of radiofrequency electromagnetic radiation (RF EMR) will be problematic if not impossible to sort out epidemiologically as there no longer remains an unexposed control group.

This is especially important considering these effects are likely magnified by synergistic toxic exposures and other common health risk behaviors. Effects can also be non-linear.

Because this is the first generation to have cradle-to-grave life span exposure to this level of man-made microwave (RF EMR) radiofrequencies, it will be years or decades before the true health consequences are known. Precaution in the roll out of this new technology is strongly indicated."

There's No Safe Way to Implement 5G

Similarly, in an article⁸ on the Environmental Health Trust's website, Ronald Powell, Ph.D., a retired Harvard scientist of applied physics, notes "there is NO SAFE WAY to implement 5G in our communities; rather, there are only 'bad ways' and 'worse ways,'" and rather than argue about who should have control over its deployment, we should focus on preventing its employment altogether.

Indeed, mounting research^{9,10} suggest the proliferation of 5G for the sake of faster wireless internet could be a public health disaster, so if 5G does end up "replacing cable internet for good," humanity may be in for a devastating shock in coming decades, if not sooner.

While it may take years to fully ascertain the full effects of 5G, there are early warning signs. People have reported mass die-offs of bees around

5G towers in California,¹¹ for example, and residents in Gateshead in the U.K. started reported insomnia, chronic nosebleeds and stillbirths after the installation of streetlamps that emit 5G radiation in 2016.¹²

'No Reason to Believe 5G Is Safe,' Scientific American Says

In an October 17, 2019, article,¹³ Scientific American warns “We have no reason to believe 5G is safe,” and that “contrary to what some people say, there could be health risks.” The article, written by Joel M. Moskowitz, Ph.D., director for the Center for Family and Community Health in the School of Public Health at the University of California, Berkeley, notes:¹⁴

“The telecommunications industry and their experts have accused many scientists who have researched the effects of cell phone radiation of ‘fear mongering’ over the advent of wireless technology’s 5G.

Since much of our research is publicly-funded, we believe it is our ethical responsibility to inform the public about what the peer-reviewed scientific literature tells us about the health risks from wireless radiation.”

Moskowitz points out that the FCC has recently announced¹⁵ its intention to reaffirm and maintain current radio frequency radiation (RFR) exposure limits, which were originally adopted in the late 1990s. However, there are significant problems with this.

Current RFR limits are based on studies from the 1980s looking at the behavioral effects of microwave radiation on rats, “and were designed to protect us from short-term heating risks due to RFR exposure,” Moskowitz writes.¹⁶

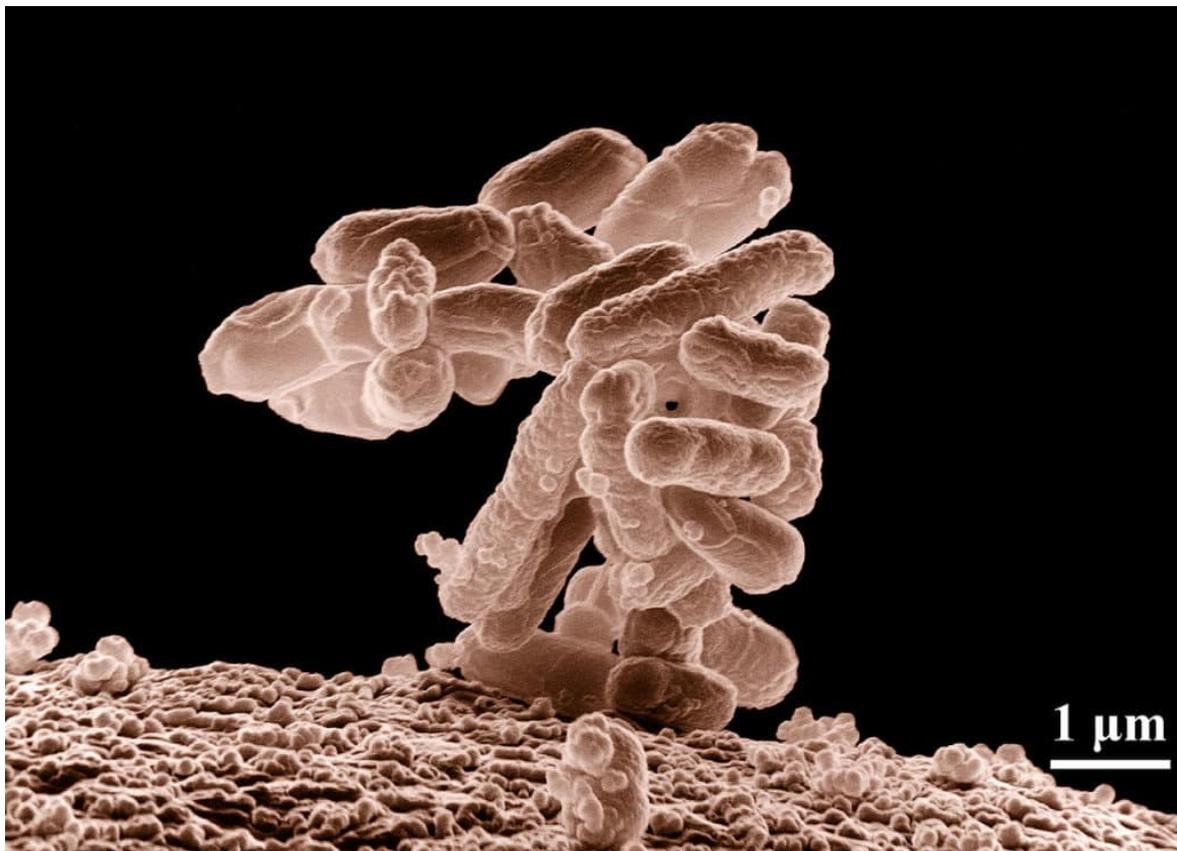
These limits are already outdated for our current levels of exposure, so they’re surely bound to be completely inadequate for 5G. Since the 1980s, more than 500 studies¹⁷ have identified harmful health or biological effects at RFR intensities far below those needed to produce

heating, yet the FCC is ignoring these clearly established facts. As noted by Moskowitz:¹⁸

“The FCC’s RFR exposure limits regulate the intensity of exposure, taking into account the frequency of the carrier waves, but ignore the signaling properties of the RFR. Along with the patterning and duration of exposures, certain characteristics of the signal (e.g., pulsing, polarization) increase the biologic and health impacts of the exposure.

New exposure limits are needed which account for these differential effects. Moreover, these limits should be based on a biological effect, not a change in a laboratory rat’s behavior.”

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DARPA: ‘Militarized Microbes’ To Spread GMO Bacteria

DARPA is piled high with Technocrats who invent advanced military applications for the armed forces. Ethical and moral considerations are foreign to the discussion as to the wisdom of building dystopian killing machines. □ TN Editor

The Pentagon’s DARPA (Defense Advanced Research Projects Agency) wants to be able to spread genetically modified bacteria as “explosives sensors.” The United States government could very well be looking into ways to militarize microbes.

The Pentagon has teamed up with Raytheon for this project, which seems like it should come straight out of a dystopian science fiction story. The government wants to develop a system capable of delivering genetically modified bacteria underground, according to a report by *RT*.

Initiated by DARPA, the same agency that led programs to create telekinetic super soldiers and weaponized robotic insects, the project seeks to “program two bacterial strains to monitor ground surfaces for explosive materials,” defense contractor Raytheon said in a joint press release with the Worcester Polytechnic Institute.

So the genetically modified bacteria are for your own good!

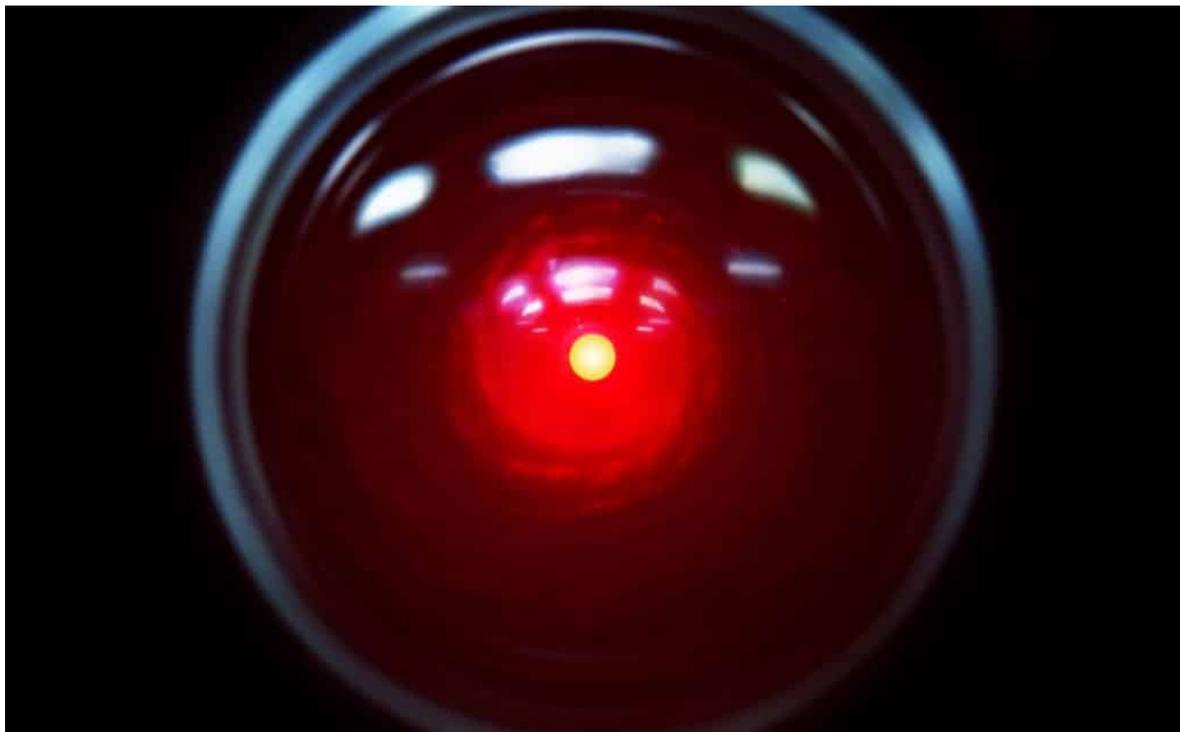
The first of the two strains, known as a “bio-sensor,” will “detect the presence or absence of explosives buried underground,” while the second will produce a “glowing light” in the event such materials are found. Remotely operated cameras or drones would then be sent to survey the area to find the glowing germs, and ultimately the buried explosives. -RT

“We already know that some bacteria can be programmed to be very good at detecting explosives, but it’s harder underground,” said Raytheon researcher Allison Taggart. “We’re investigating how to transport the reporting bacteria to the required depth underground.”

Though the Pentagon claims it only plans to use the system for “defensive” purposes only, some may find the idea of militarized microbes off-putting while conjuring apocalyptic scenarios of a runaway genetically engineered superbug.

DARPA has undertaken some projects that should raise the alarm in many. However, it almost seems as though we’ve reached a point where the masses don’t care what’s being done to them, in their name, and with the money stolen from them. And these are just a few of the things we know DARPA is working on.

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Amazon’s Hal 9000: Dave? What is it, Alexa?

Amazon is set to leapfrog Facebook’s dystopia and go directly to personal control; just think Hal in the movie, *2001: A Space Odyssey*.

Alexa's AI will be tailored to mold your actions, consumption and relationships. □ TN Editor

Amazon has big plans for its virtual assistant. One day, perhaps sooner than you think, Alexa will take a proactive role in directing our lives. It'll interpret our data, make decisions for us, and summon *us* when *it* has something to say.

Rohit Prasad, the scientist in charge of Alexa's development, recently gave *MIT Technology Review's* Karen Hao one of the most terrifying interviews in modern journalism. We know how dangerous it is to let bad actors run amok with AI and our data - if you need a refresher, recall the Cambridge Analytica scandal.

That's not to say Prasad is a bad actor or anything but a talented scientist. But he and the company he works for probably have access to more of our data than ten Facebooks and Twitters combined. And, to paraphrase Kanye West, no one person or company should have all that power.

Hao writes:

Speaking with MIT Technology Review, Rohit Prasad, Alexa's head scientist, has now revealed further details about where Alexa is headed next. The crux of the plan is for the voice assistant to move from passive to proactive interactions. Rather than wait for and respond to requests, Alexa will anticipate what the user might want. The idea is to turn Alexa into an omnipresent companion that actively shapes and orchestrates your life. This will require Alexa to get to know you better than ever before.

The idea of Alexa being an omnipresent companion looking to orchestrate your life should probably alarm you. But, for now, the work Prasad and the Alexa team are doing isn't *scary* on its own merit. If you're one of the eight or nine people on the planet who has never interacted with Alexa, you're both missing out and not really missing out. Virtual assistants, today, are equal parts miraculously intuitive and frustratingly limited.

With one interaction, you'll say "Alexa, play some music" and the

assistant will 'randomly' select a playlist that touches the depths of your soul, as if it knew better than you did what you needed to hear.

But the next time you use it, you might find yourself in a three-minute-long argument over whether you wanted to listen to music by Cher or purchase a beige chair (with free two-day shipping).

From a consumer point-of-view, it's hard to imagine Alexa becoming so useful that we'd come running when *it* summons *us*. But Alexa's primary mission will always be to gather data. Simply put: Amazon, Microsoft, and Google are all trillion dollar companies because data is the most valuable resource in the world, and Alexa is among the world's greatest data collectors.

Once Alexa stops listening for commands and starts making suggestions, it means Amazon's no longer focused on building a handful of giant training databases comprised of data from hundreds of millions of users. Instead, it indicates that it's focused on building millions of training databases composed of data gleaned from single individuals or very small user groups.

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