

The May 30, 2016, Memorial Day Edition of REVENGE OF HUMP DAY!

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Welcome to the May 30, 2016, Memorial Day Edition of REVENGE OF HUMP DAY!

I am going to send this week's missive out a little early because I will be driving back home tomorrow from visiting Uncle Bobby at his condo in Perdido Key, Florida. Gary 'Da Fish' Shelton and Mr. Bill Durkin have been keeping Uncle Bobby company for a few days over Memorial Day weekend. I would say it's been great but the three of them have been abusing me over the card table and taking great joy in it. Oh woe is me.

Memorial Day makes me sit back and think about all the things I am happy to have and the men and women who have put their lives on the line to give them to me. I was a grunt in the Air Force in the bad old days, but my service will never compare to those who have come before me, served with me or who came after me. Real heroes who have served their country should be honored for what they have done.

I also share some similar beliefs with Robert A. Heinlein when it comes to service to our country. I honestly believe that every politician and school teacher should serve in the military or approved federal or state service before they are eligible for the job. I think that you can understand why I put politicians in that category, but why school teachers you might ask? If you are going to trust your children to someone, those people should have proved the moral ability to make a sacrifice and serve their country. I also believe that veterans should be given preference for the jobs of policeman, fire man or any federal position. And one last thing that will probably piss some of you off out there. You should only be allowed to vote if you are a veteran.

But, if you want to serve your country, there should always be a place for you in the military or federal service that you will be physically and mentally be able to serve in, even if it is just picking up garbage on the side of the road for a year.

The older I get, the more I think that these ideas have merit. The more I watch people in the Government enrich themselves and pass BS laws, the idea of personal accountability becomes more important to me.

So, on that "Insightful Note", why don't y'all sit back and relax because here's the best in gossip, jokes and science for your reading pleasure!

Uncle Timmy

<G>~<O>~<S>~<S>~<I>~<P>~<S>~<T>~<A>~<R>~<T>~<S>~<H>~<E>~<R>~<E>~<I>

YOUR MEMORIAL DAY TREAT

From: "Jerry Tollett" haleja@epbf.com

TOBY KEITH - COURTESY OF THE RED, WHITE AND BLUE (THE ANGRY AMERICAN)

NEVER GET TIRED OF HEARING THIS!!!!!!!!!!!!!! TURN UP YOUR SPEAKERS!!!!!!!!!!!!!!

Remember all of our Military this Memorial Day. Those that served and those that still serve!

<https://www.youtube.com/watch?v=ruNrdmjcNTc>

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<L>~<I>~~<E>~<R>~<T>~<Y>~<C>~<O>~<N>

From: "William Green" whgconsulting@gmail.com

MEMORIAL DAY

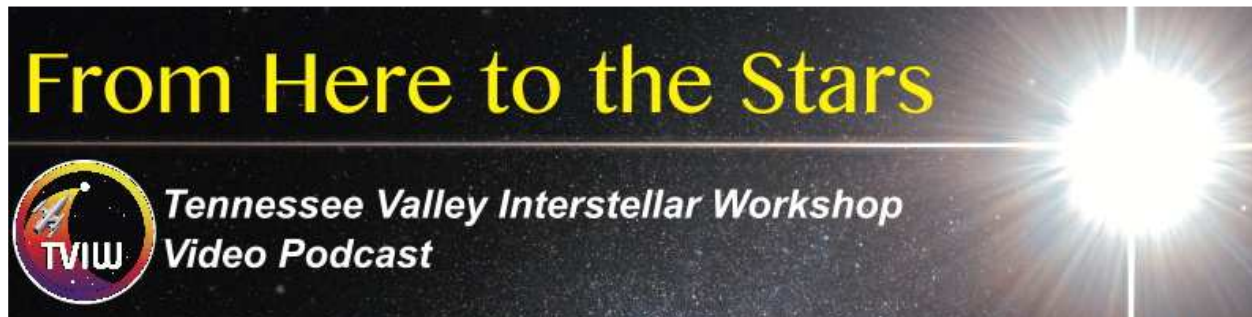
**LET US NOT FORGET
WHAT IT COSTS
TO HAVE
WHAT WE HAVE.
LET US NOT FORGET
WHAT SACRIFICES
HAVE BEEN MADE
FOR WHAT
WE CONSIDER A RIGHT
OR
THAT WE CAN CONSIDER IT
AT ALL.**

TO THOSE OF YOU WHO HAVE PUT YOURSELF AT RISK, THANK YOU!

<http://www.nthei.com/persid1.html>

THANK YOU BROTHER.

<L>~<I>~~<E>~<R>~<T>~<Y>~<C>~<O>~<N>



From: "Tennessee Valley Interstellar Workshop" ylo@tviw.us

TVIW's "From Here to the Stars - Episode 6" featuring Dr. James N. Benford is now available on our YouTube channel

Episode 6

For for the delay, Episode 6 of the TVIW's "From Here to the Stars" podcast is now available on the TVIW's YouTube Channel at <https://youtu.be/MD0KFBc3AL8>. In this episode Stephen Euin Cobb, Host of "Future and You" podcast, talks with Dr. James N. Benford, the President of Microwave Sciences, Inc., a contracting firm specializing in High Power Microwave (HPM) systems.

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Microwave Sciences provides expert services from conceptual design to hardware, HPM effects testing and power beaming. Dr. Benford has been active in advanced research in private companies for 40 years and is experienced in transitioning research results into commercial products. He has published over 139 scientific papers and has written six books on physics topics.

This series is produced in association with Tennessee Valley Interstellar Workshop (Les Johnson, Executive Producer). If you like it, subscribe to the TVIW Channel. We will be releasing a new episode around the first of the month, so mark your calendar. Better yet, subscribe to our channel and get notified automatically!

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PROFESSIONAL TRAVELS OF AN ENGINEER

From: "Robert G Kennedy III, PE" robot@ultimax.com

Dear Timmy, since you like hearing about my travels:



<http://www.ultimax.com/pic/Greetings-from-Arecibo.jpg>

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Also got one with me & Les.

Robert

PS. I heard tell that the company is going to send me to a very strange place. Stay tuned.

<L>~<I>~~<E>~<R>~<T>~<Y>~<C>~<O>~<N>

Re: Phone Troubles

From: "Robert Groller" robert.groller@gmail.com

Hey Uncle Timmy,

Not sure what kind of cell you have but there is an app called 'True Caller' that I use on my iphone that keeps are running log of spammers and keeps them from getting through to you. I believe it also works on android phones. Also - the national do not call registry works wonders as well:

<https://www.donotcall.gov/>

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Re: Phone Troubles

From: "Anita S Moore" foofighterubu@gmail.com

Some one may have already told you, but if Verizon is your phone service and you buy a new phone on ebay, you only have to call... Brandy should be able to tell you the number.

611 will get you a person... but it might get you a recording telling you what to dial instead. We have purchased phones from ebay for years. The phone I have now is my first Verizon purchase. :) and... If you are on the plan, it costs nothing to activate a new phone... it costs more to have service on a smart phone than a flip phone.

But there's no fee if you are already in the family

THANK YOU ANITA, I'LL CHECK ON IT WHEN I GET BACK FROM VACATION. UT

<L>~<I>~~<E>~<R>~<T>~<Y>~<C>~<O>~<N>

Re: Phone Troubles

From: "Jerry Pournelle" jerryp@jerrypournelle.com

I keep a landline in case of emergencies, in case cell phones go down; in the last earthquake landlines worked here but cell phones did not. Of course that was long ago. I also use Panasonic landline phones from COSTCO and they work well for me.

Hope all is well. Best regards

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<L>~<I>~~<E>~<R>~<T>~<Y>~<C>~<O>~<N>

Re: Phone Troubles

From: "Jerry Mingle" gbmingle@gmail.com

Tim, I looked at all the options on phones for someone who doesn't use them much (or want to). For Judy who almost never uses her phone and wants a small old style flip phone, she still has a Tracfone. Costs about \$100 /year service time and 400 minutes air time, no data. I am using an android Motorola MOTO G smart phone on Cricket wireless. Costs \$35/mo for unlimited calling, text, and 2.5 gb of data with auto bill to a credit card. Think I paid about \$25 for the Moto G from Cricket when I signed up. Both work fine in most places (except Big Bend back in March) and I haven't run out of data yet. I also like the Moto G, fast, runs good google apps, and fits in a shirt pocket.

If you look at Cricket and are looking at a new phone, be sure to check the phone operating system. Don't think you would want a phone running on Windows Phone op sys.

Just a little input from someone, like you, who had too much phone during business (and midnight calls from the TVA operator with all the big wigs) and was looking for a good deal.

JERRY WAS MY OLD BOSS AT TVA AND HE WAS ONE OF THE VERY GOOD ONES WHO BECAME MY FRIEND. UT

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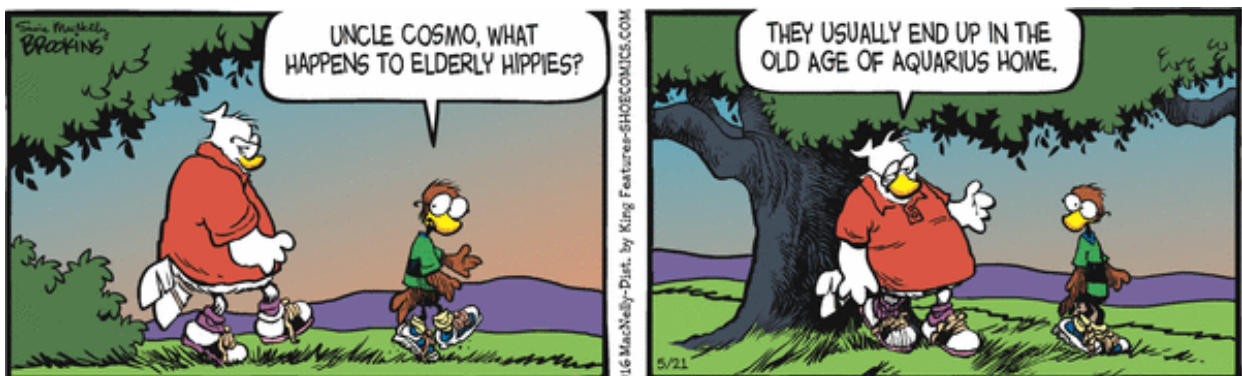
Re: Phone Robo-Calls

From: "Kay Bolgeo" ronkaybo@gmail.com

I do the same thing during the day. I just don't answer the phone if its a strange # but when Ronnie (Bolgeo, my cousin) gets home he picks up and starts messing with themmost of the time they hang up, but they always call back next day. You can put your phone # on the DO NOT CALL LIST but it doesn't seem to do any good.

<T>~<H>~<E>~<J>~<O>~<K>~<E>~<S>~<S>~<T>~<A>~<R>~<T>~<H>~<E>~<R>~<E>

From: "Christina Cowan" cowan1028@earthlink.net



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<J>~<O>~<K>~<E>~<S>~<of>~<the>~<W>~<E>~<E>~<K>

From: "Mike Waldrip" waldripk@gmail.com

LONDON LAWYER & AN IRISH COP

A London lawyer runs a stop sign and gets pulled over by an Irish cop. He thinks that he is smarter than the cop because he is a lawyer from LONDON and is certain that he has a better education than any Irish cop. He decides to prove this to himself and have some fun at the Irish cop's expense!

Irish cop says, "License and registration, please."

London Lawyer says, "What for?"

Irish cop says, "Ye didnae come to a complete stop at the stop sign."

London Lawyer says, "I slowed down, and no one was coming."

Irish cop says, "Ye still didnae come to a complete stop. License and registration, please"

London Lawyer says, "What's the difference?"

Irish cop says, "The difference is, ye huvte come to complete stop, that's the law. License and registration, please!"

London Lawyer says, "If you can show me the legal difference between slow down and stop, I'll give you my license and registration and you give me the ticket. If not, you let me go and don't give me the ticket."

Irish cop says, "Sounds fair. Exit your vehicle, sir."

The London Lawyer exits his vehicle.

The Irish cop takes out his baton and starts beating the living shit out of the lawyer and says, "Daeye want me to stop or just slow down? "

<J>~<O>~<K>~<E>~<S>

DEAR DIARY- Day 1

All packed for the cruise ship -- all my nicest dresses, swimsuits, short sets. Really, really exciting.

Our local ladies club - The Late Bloomers, decided on this "all-girls" trip. It will be my first one, - and I can't wait!

DEAR DIARY - DAY 2

Entire day at sea, beautiful. Saw whales and dolphins. Met the Captain today -- seems like a very nice, handsome man.

DEAR DIARY - DAY 3

At the pool today. Did some shuffleboard, hit golf balls off the deck. Captain invited me to join him at his table for dinner. Felt honored and had a wonderful time. He is very attractive and attentive

DEAR DIARY - DAY 4

Won \$800.00 in the ship's casino.
Captain asked me to have dinner with him in his own cabin. Had a scrumptious meal complete with caviar and champagne.
He asked me to stay the night, but I declined. Told him I could not be unfaithful to my husband.

DEAR DIARY - DAY 5

Pool again today. Got a bit sunburned, and I went inside to drink at piano-bar, stayed there for rest of day. Captain saw me, bought me several large drinks. Really is quite charming.

Again asked me to visit his cabin for the night. Again I declined. He told me, if I did not let him have his way with me, he would sink the ship... I was shocked.

DEAR DIARY - DAY 6

Today I saved 2,600 lives.

TWICE.

<J>~<O>~<K>~<E>~<S>

TWO OLD LADIES

Two elderly ladies had been friends for many decades. Over the years, they had shared all kinds of activities and adventures. Lately, their activities had been limited to meeting a few times a week to play cards.

One day, they were playing cards when one looked at the other and said, "Now don't get mad at me... I know we've been friends for a long time but I just can't think of your name. I've thought and thought, but I can't remember it. Please tell me what your name is."

Her friend glared at her. For at least three minutes she just stared and glared at her. Finally she said,

"How soon do you need to know?"

<J>~<O>~<K>~<E>~<S>



"Bad news, its curiosity"

<J>~<O>~<K>~<E>~<S>

MEDICAL CONCERNS

After his exam the doctor said to the elderly man: "You appear to be in good health. Do you have any medical concerns you would like to ask me about?"

"In fact, I do," said the old man. "After I have sex with my wife, I am usually cold and chilly, and then, after I have sex with her the second time, I am usually hot and sweaty."

After examining his elderly wife, the doctor said: "Everything appears to be fine. Do you have any medical concerns that you would like to discuss with me?"

The lady replied that she had no questions or concerns. The doctor then said to her: "Your husband had an unusual concern. He claims that he is usually cold and chilly after having sex with you the first time, and then hot and sweaty after the second time. Do you know why?"

"Oh that crazy old fart," she replied. "That's because the first time is usually in January and the second time is in August."

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Brit Humor – Speed

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(Note for those unfamiliar with the British road network: 'A' roads are main, or arterial, roads and they are all identified by 'A' and a number.) An elderly man is driving his wife on a road trip around the south east of England.

Shortly after getting on to the A2, a police car signals them to pull over, and the old man obliges. The police officer walks up to the driver's side and the old man winds down the window. The policeman asks him, "Is there something wrong with your car, sir?"

"No. I don't think so." "Then why were you driving so slowly?"

"Slowly?" "Do you have any idea what speed you were doing?"

"Yes. Exactly 2 mph. "The speed limit along here is 70 mph. You can't drive that slowly. It's very dangerous."

"Oh. I thought the speed limit was 2 mph, as it's the A2."

"It is the A2, but the speed limit along here is 70 mph. I will let you off for now, but you need to speed up to around that speed."

The old man agrees to do so. As the police officer is about to return to his car, he looks over at the old lady in the passenger seat and sees that she has been staring dead ahead for the whole time and is covered in sweat, shaking. He asks what's wrong with her.

"Oh her? She's been like that since the A259

<J>~<O>~<K>~<E>~<S>~<of>~<the>~<W>~<E>~<E>~<K>

From: "Jerry Tollett" haleja@epbf.com

HILARIOUS SOUTHWEST AIRLINE SAFETY PRESENTATION (OPEN CAPTIONS)

<https://www.youtube.com/watch?v=TxNrizGdhtY>

<J>~<O>~<K>~<E>~<S>~<of>~<the>~<W>~<E>~<E>~<K>

From: "Townsend, Mike" mtown3721@gmail.com

GROANERS

How does Moses make tea? Hebrews it.

- Venison for dinner, again? Oh, deer!
- A cartoonist was found dead in his home. Details are sketchy.
- I used to be a banker, but, then, I lost interest.
- Haunted French pancakes give me the crêpes.

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- England has no kidney bank, but it does have a Liverpool .
- I tried to catch some fog, but I mist.
- They told me I had type-A blood, but it was a Typo.
- I changed my iPod's name to Titanic. It's syncing, now.
- Jokes about German sausage are the wurst!
- I know a guy who's addicted to brake fluid, but he says he can stop, any time.
- I stayed up all night to see where the sun went, and, then, it dawned on me.
- This girl said she recognized me from the vegetarian club, but I'd never met herbivore.
- When chemists die, they barium.
- I'm reading a book about anti-gravity. I just can't put it down.
- I did a theatrical performance about puns. It was a play on words.
- Why were the Indians here, first? Because, they had reservations.
- I didn't like my beard, at first. Then, it grew on me.
- Did you hear about the cross-eyed teacher who lost her job because she couldn't control her pupils?
- When you get a bladder infection, urine trouble.
- Broken pencils are pointless.
- What do you call a dinosaur with an extensive vocabulary? A thesaurus.
- I dropped out of communism class because of lousy Marx.
- All the toilets in the police station have been stolen. The police have nothing to go on.
- I got a job at a bakery because I kneaded dough.
- Velcro - what a rip off!
- Don't worry about old age; it doesn't last.

I used to kiss her on the lips but its all over now.

<J>~<O>~<K>~<E>~<S>

Confucius Say:

Kiss is merely shopping upstairs,

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For merchandise downstairs.

Confucius Say:
Better to lose a lover
Than love a loser.

Confucius Say:
Man with broken condom
Often called Daddy

Confucius Say:
Sex is same as bank account.
You put it in, you take it out....you lose interest.

Confucius Say:
Viagra just like Disneyland ...
One hour wait for 5 minute ride.

Confucius Say:
Much better to want the mate you do not have
Than to have the mate you do not want.

Confucius Say:
Joke is like sex.
Neither any good if you don't get it.

<J>~<O>~<K>~<E>~<S>~<of>~<the>~<W>~<E>~<E>~<K>

From: "Tom Carpenter" tjei@epbfi.com

MEDICARE Part G - Nursing Home Plan

Say you are an older senior citizen and can no longer take care of yourself and the government says there is no Nursing Home care available for you. So, what do you do? You opt for Medicare Part G.

The plan gives anyone 75 or older a gun (Part G) and one bullet. You are allowed to shoot one worthless politician. This means you will be sent to prison for the rest of your life where you will receive three meals a day, a roof over your head, central heating and air conditioning, cable TV, a library, and all the Health Care you need. Need new teeth? No problem. Need glasses? That's great. Need a hearing aid, new hip, knees, kidney, lungs, sex change, or heart? They are all covered!

As an added bonus, your kids can come and visit you at least as often as they do now! And, who will be paying for all of this? The same government that just told you they can't afford for you to go into a nursing home. And now, because you are a prisoner, you don't have to pay any more income taxes and the funeral is taken care of .

Is this a great country or what? Now that you have solved your senior financial plan, enjoy the rest of your day.

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<J>~<O>~<K>~<E>~<S>~<of>~<the>~<W>~<E>~<E>~<K>

From: "Robert G Kennedy III, PE" robot@ultimax.com

LATE PHYSICIST

There was this physicist who was in the habit of getting home quite late. One time, he came home at 2:30 a.m. with a torn shirt, lipstick on his collar, hair messed up, and generally looking like a wreck. His wife caught him coming in the door and demanded to know why he came home so late.

His replied, "Well, after I left work today, a few friends and I went out to the bar for a few drinks. We met up with some rather good-looking young women and started to drink to excess. Things just kept happening, as you can well see. I sobered up enough to note how late it was, so I rushed home."

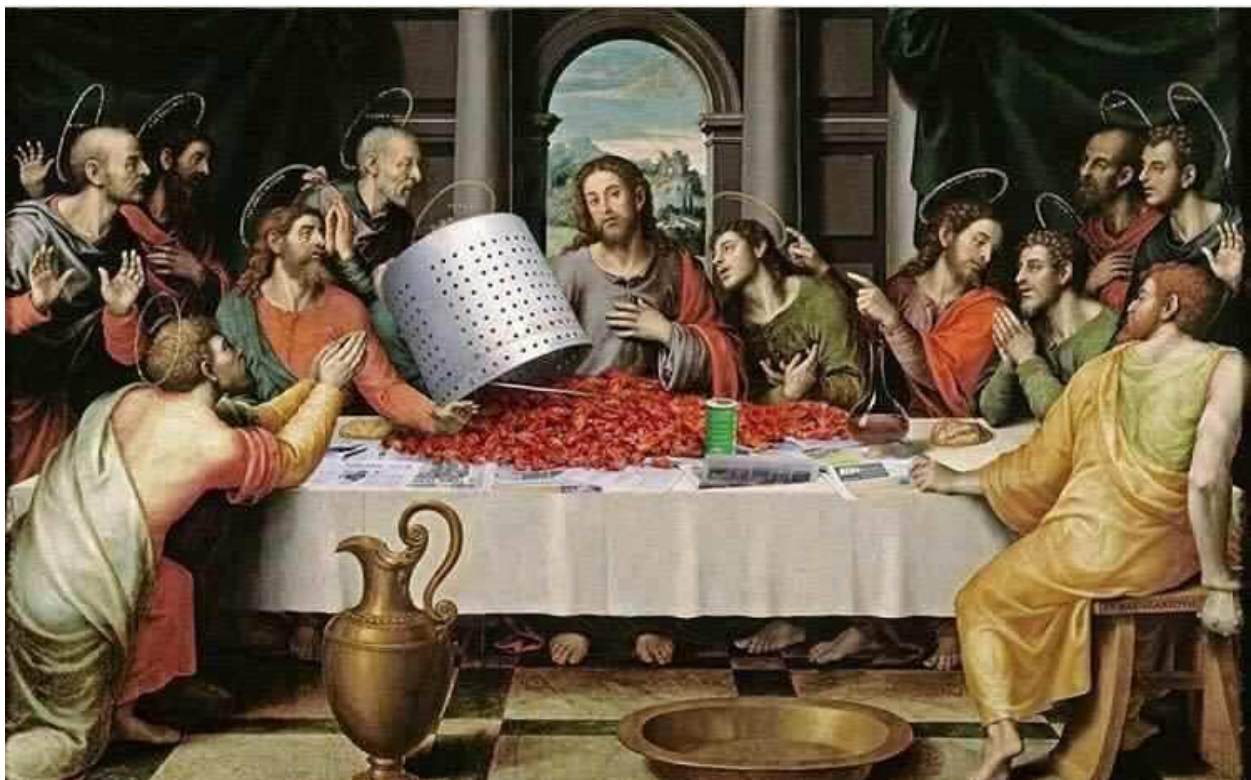
She screamed, "You liar! You were in the lab again, weren't you?"

Received from Clean Laffs.

<J>~<O>~<K>~<E>~<S>~<of>~<the>~<W>~<E>~<E>~<K>

From Uncle Bobby & Bill Durkin's Facebook Pages

CAJUN LAST SUPPER



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From: "Jim Woosley" jimwoosley@o.com

"A Gun Owner Goes to the Doctor..."

<http://www.ammoland.com/2016/05/gun-owner-goes-doctor/>

WHY ARE YOU
ASKING ME IF I OWN A GUN?
I'M IN HERE FOR
HEMORRHOIDS!



FREEREPUBLIC.COM

CHECK OUT THE ARTICLE, IT IS EYE OPENING. UT

<J>~<O>~<K>~<E>~<S>

SQUIDS AND THE INNER LIGHT OF BEING

Posted on May 19, 2016 by Fred Reed

<http://fredoneverything.org/squids-and-the-inner-light-of-being/>

It was an epochal moment for the military and perhaps for all of society. Screwing up her courage, Air Force First Lieutenant Kara-Ann McBee walked into her commander's office on the D-Ring of the Pentagon and announced that she was a giant squid.

Kara was slender and tomboyish, with an upturned nose, freckles, and an attractive brush-cut hairdo. She could have been Tom Sawyer's sister. She did not appear to be a giant squid.

"But I am, sir," she said, rigidly at attention and clearly nervous. "I've known it since I was a little girl. I...sir, I am a squid trapped in a woman's body. I'm trans-phylum, sir."

The commander, Colonel R. Boyd Gittim, was stunned. He was a compact, graying man in his mid-fifties, a combat flier who had slipped through the screening process to high position in what insiders called the Five-Sided Wind Tunnel. He was not well suited to the complex personnel issues of the modern military.

He had to say something. What, he wondered?

"Squids have lots of arms. Ten, I think."

"Yessir, ten. But...you see, sir, I feel their presence. Like ectoplasm or something."

Colonel Gittim sighed. He knew of course about LGBT, which he thought of as Lettuce, Bacon, and Tomato, and he knew there existed crucial military questions about whether boys could use the girls room. Squids were too much.

It wasn't his Air Force any longer, he thought grayly. Wars were fought by remotely-controlled drones now, and the best pilots were probably fifteen-year-old gamers with no social life. They could do it from home by internet. He decided to retire and drink himself to death.

But consequences were to follow this modest beginning. Kara-Ann, not particularly militant, said that just wanted to be respected as a cephalopod, although she did say that she thought the Air Force ought to provide her an aquarium to sleep in. But, inevitably, the affair came to the attention of DACOWITS. This was not a Polish mathematician, but the Defense Advisory Commission on Women in the Services. They were Boadiceas of social justice, fighting against the oppression, brutality, contempt and unremitting assault to which women were subjected everywhere, except anywhere that anyone could find.

Dacowits needed something to do. Things were slow in the trenches of discrimination. Most victories had been won. A woman commanded the SEALs, who had been disarmed to prevent violence. The new main battle tanks had changing tables, and urinals had been outlawed throughout the services or converted to flower pots to preclude uncomfortable spaces. The warriors of social justice needed a Cause.

Virtual squids were just the thing.

But what to demand? There was no point in having a Cause if you couldn't demand something outrageous and get coverage in the Washington Post. Perhaps, they decided,

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they could insist that Kara-Ann should have uniforms with ten sleeves. After intense conferencing, they came up with “imputed tentacles.” After all, phylum was a social construct, and if Kara-Ann could be a squid without looking like one, then she could have tentacles without having any.

When an unwise major tweeted that the idea was “silly as hell and I don’t want to serve with any goddam octopus,” he was demoted. Wilhelmina Mikoyan-Gurevich, chairwoman of Dacowits, exploded. Who were men to decide how many arms a woman had? Did men know what it was to be pregnant? Women knew their own bodies. If they thought they had tentacles, then they did have them.

A few within Dacowits thought this was over the top, even in pursuit of social justice. Maybe something simpler would do. Could they demand special diets for virtual squids? They weren’t sure what squids ate. Something unpleasant, no doubt.

Restaurants and chow halls throughout the military were forbidden to serve calamai when Kara-Ann broke down in hysterical crying and said it was just too...too horrible, and requested counseling. Trans-phylum bathrooms were a slam-dunk, but what exactly would such a loo need? How did squids...you know...do it? A commission was formed to study the question.

Things became complicated as more servicepersons discovered their inner zoology. Two giraffes, a kudu, and a Brahma bull came out of the closet, the last requesting a feeding trough in the mess hall. The kudu, a goggle-eyed computer nerd from Defense Intelligence named Howie Osfeiser, said he wasn’t sure what a kudu was, but he figured he probably was one. He just knew it.

An unenlightened Marine general said “the whole business is crazier than three monkeys in a bag. What is this freak show coming to?” The Washington Post ran an editorial comparing him to Hitler and saying that his attitude would lead to a second Holocaust. Of course, the Post thought that everything would lead to a second Holocaust.

The State Department announced that it would fund a recruitment drive to find trans-phylum ambassadors, and would modify embassies correspondingly, for example by increasing headroom for imputed giraffes.

In his last days in office, President Obama ordered that all federal buildings be equipped with litter boxes, saying, “A country as great as America was—is—that all the world wants to be like, and wishes it was, cannot seem to penalize citizens who think they are animals, even if they aren’t—though of course they are. Who are we to decide what kind of animals other people are? Praise Allah.”

This clarion call to probity and fairness echoed around the world and was adjudged to embody the clarity and internal coherence characteristic of Obama’s speeches.

A veritable storm of justice had left its imprint in the Pentagon. Calm gradually returned. Glitches continued, but they were minor. The Army’s Chief of Staff, Priscilla-Robert McFarley, came out of the closet as a Bolivian anteater and was discovered to be having termites flown in from La Paz. The computer nerd who had declared himself a kudu figured out that if he discovered himself to be a three-toed sloth instead, the Army would have to give him more time to sleep.

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The furor finally died down and the nation entered a time of healing. The matter of inter-phylum dating caused a brief flurry, but abated when it was pointed out that the practice was common in the sheep country of Scotland. And of course national attention was diverted when an Army person who gender-identified as usually or somewhat male was caught trying to have sex with a vacuum cleaner. Phylum-neutral bathrooms were hastily equipped with chutes for emptying dust bags and....

<YOU>~<>~<JUST>~<>~<CAN'T>~<>~<MAKE>~<>~<THIS>~<>~<STUFF>~<>~<UP!>

YOU JUST CAN'T MAKE THIS STUFF UP!

From: "Christina Cowan" cowan1028@earthlink.net

Kleenex warning. I was so proud that the Brits and our military stationed there honored him as they did. But then the Brits have not forgotten; sometimes I think some of us have.

AFTER 70 YEARS OF WAITING, WWII 'MEMPHIS BELLE' GUNNER, 94, REVISITS BRITAIN. AND DIES QUIETLY THERE.

By Travis M. Andrews May 26 at 5:40 AM

https://www.washingtonpost.com/news/morning-mix/wp/2016/05/26/after-long-sought-journey-to-wwii-post-u-s-vet-94-dies-quietly-at-battle-of-britain-bunker/?tid=pm_national_pop_b



U.S. Air Force Master Sgt. Melvin Rector (Screengrab from ITV video)

U.S. Air Force Master Sgt. Melvin Rector long carried Britain in his heart after he helped defend it during World War II, but 70 years passed without him stepping foot in the country.

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The 94-year-old finally decided to leave his home in Barefoot Bay, Fla., to visit Britain earlier this month. The National World War II Museum in New Orleans conducts a travel program through which interested parties can visit certain sites of the war. He signed up for one, in hopes of visiting the Royal Air Force station Snetterton Heath, in Norfolk.

He served there with the 96th Bomb Group in 1945 as a radio operator and gunner on B-17 Flying Fortress bombers, flying eight combat missions over Germany during the spring of the war's final year. On four of these missions, his plane came under heavy fire. One almost proved catastrophic, and the plane returned to base with holes dotting its wings.

1946 film tells the story of WWII's 'Memphis Belle'

This excerpt is from a short film published by the Department of Defense in 1946. The film tells the story of the B-17 Flying Fortress "Memphis Belle," her crew and their 25 successful WWII missions from May 1942 to November 1943. (Department of Defense)

At one point during his military career, he served as a gunner for the Memphis Belle, the first heavy bomber to complete its tour by flying 25 missions with its crew intact. It went on to have a post-war career in raising morale and money for the U.S. Army. Writes historian John Buescher of the warplane:

After both crew and plane completed their respective 25th mission, the crew received the Air Medal with three Oak Leaf Clusters and the Distinguished Flying Cross. They were then ordered in June to fly the Memphis Belle back to the United States for a cross-country tour, the aim of which was to increase morale back home and to sell War Bonds. ... When the Memphis Belle completed its tour (the first heavy bomber to do so), it was a joyful event, not only for the crew, but also for the entire air command and the American public.

The B-17 Flying Fortress garnered such attention that not one but two films were made about it: a documentary in 1944 and an eponymously titled drama in 1990, starring John Lithgow, Matthew Modine and Harry Connick Jr.

Rector was excited for his return to the place that made this great plane famous.

"He planned it for like the last six months," Darlene O'Donnell, Rector's stepdaughter, said of the trip, according to the Florida Today newspaper. "He couldn't wait to go."

On Rector's long flight over the Atlantic, the pilot of his American Airlines flight summoned him to the cockpit so that the two could take a photograph together. "The flight attendant stopped us and said, 'Mr. Rector, the captain would like to meet you,'" Susan Jowers told Florida Today.

She had become almost a daughter to Rector after serving as his guardian during a 2011 Honor Flight trip to Washington, D.C., and she accompanied him on this tour.

On May 6, Rector stepped foot on British soil for the first time in 71 years. The group first visited RAF Uxbridge in the London borough of Hillingdon.

U.S. Air Force Master Sgt. Melvin Rector on left (Screengrab from ITV video)

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Rector toured Battle of Britain Bunker, an underground command center where fighter airplane operations were directed during D-Day. After climbing back into the sunlight, he told Jowers he felt dizzy. She grabbed one of his arms, and a stranger grabbed the other.

There, just outside the bunker where Winston Churchill famously said, "Never in the field of human conflict was so much owed by so many to so few," Rector died quietly.

"He walked out of that bunker like his tour was done," Jowers said.

Sandy Vavruich, Rector's daughter, said it's how he would have liked to die, even though he sadly never did make it to RAF Snetterton Heath.

"He couldn't have asked for a better way to go," she told Florida Today. "It was quick and painless. He had just gotten to see two planes, and he passed away between them."

Before repatriating his remains to the United States, a small service for the fallen hero was planned in Britain. It did not remain a small service.

"They just wanted something very simple. And when I found a little bit of background out about Melvin, there was no way we were going to just give him a very simple service," Neil Sherry, the British funeral director in charge of Rector's service, told ITV London News. "I wanted it to be as special as possible."

Though Jowers expected no more than four people, word of Rector's war record reached the American and British armed forces. The U.S. Embassy donated a flag to drape over his coffin, and the room filled with servicemen and women and London historians who had never met Rector but wanted to pay their respects to their spiritual brother in arms.

One of them was U.S. Army Maj. Leif Purcell. He may not have known Rector, but he attended the funeral May 18.

"Representation from the Royal Air Force and the British Army I saw here was phenomenal," Purcell told ITV London News. "I was expecting just to see myself and maybe two or three other U.S. service members and a priest, and that was it. So it was very delightful to see."

Speaking to the congregation, one U.S. serviceman said, "I do know of his sacrifice and his family's sacrifice, so you do him and his family a great honor by being here today."

There's a Twitter link with pictures of him in WW II and of his funeral.

<http://twitter.com/luketomhanrahan/status/732903851104342016/photo/1>

At the funeral of Melvin Rector, an American Airmen who flew the famous Melvin Belle B-17 during WW2. 25 missions.

<YOU>~<>~<JUST>~<>~<CAN'T>~<>~<MAKE>~<>~<THIS>~<>~<STUFF>~<>~<UP!>

YOU JUST CAN'T MAKE THIS STUFF UP!

From: "Jim Woosley" Jimwoosley@aol.com

VIDEO: 100 DRONES DANCE TO BEETHOVEN'S FIFTH SYMPHONY

Drones have a lot of people worried about privacy, but they can be used for good as well as nefarious purposes.

Take, for instance, a spectacular display of drone technology by Intel Corporation (USA) involving 100 small aircraft being launched skywards in formation has earned a new Guinness World Record for the Most Unmanned Aerial Vehicles (UAVs) airborne simultaneously.

Controlled on the ground by a crew using PCs with Intel software, the mass of drones lit up the night sky in sync to a live performance of Beethoven's Fifth Symphony and executed a stunning light show resembling a fireworks display.

This took place at Flugplatz Ahrenlohe, Tornesch, Germany, in November 2015. The record was set in collaboration with Ars Electronica Futurelab to push the limits of the UAV industry and to show what UAVs can be used for.

This 100 Drone Synchronized Airshow Is The World's Largest, And Most Impressive

https://www.youtube.com/embed/mOBQXuu_5Zw

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From: "Tim Bolgeo" tbolgeo@comcast.net

WHERE'S MY SOLAR-POWERED PHONE?

Gadget makers experiment with translucent solar cells that let touch screens draw energy from the sun

By Paul McDougall on May 24, 2016

http://www.scientificamerican.com/article/where-s-my-solar-powered-phone/?WT.mc_id=SA_TECH_20160524

Kyocera could have their solar-powered smartphone ready in time for the next Mobile World Congress in February 2017. Credit: Kyocera Corp.

Solar-powered streetlights and parking meters are not hard to find, nor are photovoltaic panels that deliver energy to houses and factories. These advances beg a big question: Will we ever be able to use the sun to power our ubiquitous smartphones and other mobile gadgets instead of plugging them into the grid every night?

The answer depends not only on efficiency gains in



photovoltaic cell technology but also on where those cells are placed on our devices and where we store them—many of us keep our smartphones stuffed in a pocket or handbag for much of the day, out of reach of the sun's energy.

To be sure, there has been some progress. At the World Mobile Congress in Barcelona this year, Japanese cell phone maker Kyocera Corp. for the second year running showed off a prototype of a 12.7-centimeter solar-powered phone. The so-far nameless device allows for a minute of talk time for every three minutes of sunlight—a big improvement over the company's 2015 predecessor, which offered only 15 minutes for every two hours of solar charging.

To develop the phone Kyocera worked with France-based Sunpartner Technologies, which produces translucent film impregnated with photovoltaic cells. Being see-through, the film can be installed between the LCD display and the touch screen so that the phone can charge more easily while in use. Most previous efforts at solar-powered phones had the cells on the back, meaning that the device had to be facedown to get a charge and that the cells, being external, could more easily be damaged.

Kyocera says it expects to bring its solar-powered smartphone to market soon, possibly in time for the next Mobile World Congress in February 2017. The company says solar charging will not add much in the way of cost, so the phones are likely to have a price tag that is acceptable to users and the carriers that sell the handsets. Kyocera spokesman John Chier adds that the technology will most likely show up in one of its lines of phones geared for industrial or outdoor use. If they do become a hit, expect more gadget makers to follow suit.

SunPartner's Wysips (for "what you see is photovoltaic surface") film is 90 percent transparent, half a millimeter thick and uses a photovoltaic layer bonded to a network of microlenses. The photovoltaic cells are virtually transparent because they are so thin and also because they are distributed around a surface that contains "a plurality of active photovoltaic zones that are separated by transparent zones," according to a 2014 patent filing. Bookeen, a Paris-based maker of E Ink electronic paper display readers, plans to use the technology in solar-powered chargers for its e-readers. French watchmaker Nevo plans to integrate the film into smartwatches.

Another trick is to design a photovoltaic cell that allows visible light to pass through while collecting energy from infrared and ultraviolet radiation. "The idea is to not even notice that you are recharging your phone," says Vladimir Bulovi?, associate dean for innovation at Massachusetts Institute of Technology's School of Engineering. Bulovi?, Richard Lunt of Michigan State University and former Lemelson-MIT Prize winner Miles Barr have used technology they developed to co-found Ubiquitous Energy, a Bay Area start-up developing transparent solar cells.

Bulovi? says greater efficiencies can be gained from the photovoltaics that power handheld consumer gadgets—but not much more at this point. "Sunlight only gives you so much energy; we can't change that," he says. "We've worked on improving solar cell efficiency over and over again. The very best solar cells are already running at the limit of expected physical performance." Those "very best" cells are close to becoming cost-competitive with fossil fuels such as coal in some applications but are themselves expensive and impractical for consumer electronics—hence Kyocera's interest in the film. "You want

something that can be reasonably efficient at a reasonable cost so it doesn't change the paradigm of what your cell phone costs," Bulovi? says.

Lunt's team at Michigan State's College of Engineering is developing a transparent luminescent solar concentrator that can be applied over an area as big as a window or as small as a smartphone display. The material picks up infrared and ultraviolet light and channels it to the edges, where photovoltaic cells convert the light to electricity.

Despite all the technical progress, solar-powered phones face another limitation that has more to do with user behavior—specifically how long people have their phones outside of their pockets, backpacks or purses and in the light, Bulovi? says. Making solar-charged phones more practical "would require a change in habits," he adds. Bulovi suggests that new handset configurations may solve some of those problems. One possibility: phones that come with an extendable solar sheet that rolls out for charging, then retracts when done.

But nothing is assured in this market. Back in 2009 Samsung introduced the Blue Earth phone—which featured a solar charger—but soon withdrew it. A Samsung spokesman says Blue Earth was a "limited production" phone that was never sold in the U.S. Nokia in 2012 abandoned a project to develop phones with a solar charger built into the back cover, saying it simply was not practical and demand was limited.

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WOUND-PLUGGING XSTAT SYRINGE SAVES ITS FIRST LIFE ON THE BATTLEFIELD

Nick Lavars May 24, 2016

<http://www.gizmag.com/wound-xstat-bleeding-battlefield/43515/>



The XStat syringe was first approved for battlefield use in 2014 and has now been used for the first time.

With the capacity to stem severe bleeding within around 20 seconds, the XStatsponge-filled syringe could be a real game-changer when it comes to medical care. It has just proved its worth in the most testing of environments, with battlefield surgeons successfully using the device to plug a soldier's gunshot wound for the first time.

The syringe, which was first approved for battlefield use in 2014, works by filling a wound with small cellulose sponges. These are made from wood pulp and covered in chitosan, an antimicrobial compound found in crustacean shells. This not only fights off bacteria, but also causes blood clotting that combines with the expanding sponges to apply pressure and quickly stop arterial bleeding.

When a coalition forces soldier received a gunshot wound to the left thigh, opening up the femoral artery and vein to leave a gaping cavity, doctors were unable to stem the residual bleeding even after around seven hours of surgery.

The team then called on the XStat syringe to fill the wound, applying a single syringe to the cavity which almost immediately stopped the flow of blood. The soldier then became stable and was moved to a definitive care facility.

"The first-in-human experience with XStat is the culmination of tremendous effort on the part of both RevMedx and our military collaborators," says Andrew Barofsky, president and CEO of RevMedx. "We are pleased to see XStat play a critical role in saving a patient's life and hope to see significant advancement toward further adoption of XStat as a standard of care for severe hemorrhage in pre-hospital settings."

The civilian version of the syringe, called XStat 30, was cleared by the FDA for use by the general population in December last year. Because the dressing can be used for up to four hours and contains x-ray detectable markers for surgical removal later on, it is hoped first responders can use it to limit civilian deaths that result from haemorrhaging before they reach the hospital.

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GALILAI: A DOME HOUSE WHICH CAN BE ROTATED UP TO 348 DEGREES

By: Nidhi Goyal | May 25th, 2016

http://www.industrytap.com/galilai-dome-house-can-rotated-348-degrees/36681?utm_source=Industry+Tap&utm_campaign=cdd5c05d2d-Industry_Tap_Volume_3155_26_2016&utm_medium=email&utm_term=0_05d6224fe0-cdd5c05d2d-44103165

Image courtesy
rayalexanderarchitect.com/

Galiläi is an architectural masterpiece designed by architect Raymond Alexander. It is a 19,000 square foot dome house that can be rotated up to 348 degrees to escape the wind and the sun with a push of a button.

Overlooking False Bay in the Western Cape province of



South Africa, this dome house is located in the Spanish Farm suburb of Somerset West. This rotating house belongs to German businessman Harard Scheppig. He and his wife built this house out of curiosity.

Here are some more details of this amazing house:

- * Galiläi was ready in 2001... it took two years of planning and another two years to build it.
- * The house can be rotated either clockwise or counterclockwise.
- * It is powered by a 3.8 KW laser-controlled German Bauer gear motor.
- * To reach the upper level of this house, you have to use the retractable bridge. However, one can enter the lower level of the house directly from the entry gate.
- * Special plaster covers the concrete shell of the house that prevents the concrete shell from cracking.
- * The top floor of Galiläi has a 49-foot diameter and weighs about 850 metric tons.
- * There are five bedrooms and a living room that has a marvelous dome which is illuminated with constellations. The constellations of the southern and northern hemispheres are made with high-quality glass fiber cables.
- * There are wide sliding glass doors that open to amazing mountain and bay views.
- * Galiläi has no straight walls and is designed in a way to bring in natural light and cut down on electricity costs.

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DARPA REQUESTS DESIGNS FOR XS-1 MILITARY SPACE PLANE

By Calla Cofield, Space.com Staff Writer | May 27, 2016 07:32am ET

<http://www.space.com/33009-darpa-xs1-military-space-plane-phase-2.html>



An artist's concept of DARPA's Experimental Spaceplane (XS-1), a proposed robotic space vehicle that could fly 10 times in 10 days and lower the cost of putting satellites in orbit. Credit: DARPA

The U.S. military's plans to build a satellite-launching robotic space plane are moving forward. On Monday (May 23), the Defense Advanced Research Projects

Agency (DARPA) put out its official call for proposals for the futuristic space plane design.

The goal of the Experimental Spaceplane (XS-1) project is to build a reusable space plane that, at optimal operation, should be able to fly 10 times in 10 days, at a cost of no more

than \$5 million per flight. Typically, space vehicles are not fully reusable, and the pieces that are reused need to undergo time-consuming safety checks between flights. XS-1 would be used primarily as a cheap and fast way to deliver satellites to orbit, DARPA officials said.

DARPA is already working with three groups on designs for XS-1. This week's announcement sets a deadline for those groups to submit their design proposals (July 22). In early 2017, DARPA is expected to select one group to move forward with the construction of an XS-1 prototype for flight testing. [DARPA's Experimental XS-1 Spaceplane in Pictures]

The XS-1 program has four primary technical goals, according to DARPA. The first is a plane that can do 10 flights in 10 days, and demonstrate "aircraft-like access to space." Second, the plane must be able to deliver a payload into low Earth orbit, which means it has to be able to move very fast. It must be able to launch a payload weighing up to 1,500 lbs. (680 kilograms) and have the capability to upgrade to 3,000-lb. (1,360 kg) payloads. And, each flight of the space plane, even with its heaviest payload, can't cost more than \$5 million.

In an era of declining budgets and adversaries' evolving capabilities, quick, affordable and routine access to space is increasingly critical for both national and economic security," DARPA officials wrote in a statement on the agency's website. "Current satellite launch systems, however, require scheduling years in advance for an extremely limited inventory of available slots. Moreover, launches often cost hundreds of millions of dollars each, due in large part to the massive amounts of dedicated infrastructure and large number of personnel required."

"DARPA created its Experimental Spaceplane (XS-1) program to help overcome these challenges and create a new paradigm for more routine, responsive and affordable space operations, reducing the time to get capabilities to space," officials said in the statement.

The XS-1 program began in 2013, and initially DARPA aimed to make the first test flights in 2018. More recent estimates put the first flights sometime in 2019 or 2020.

The program is currently broken into three phases. Phase I sought to "evaluate the technical feasibility and methods for achieving the program's goals," according to the DARPA website. In 2014 and 2015, during Phase 1, the agency awarded funds to three groups working on XS-1 designs: Northrop Grumman, partnered with Virgin Galactic; Boeing, partnered with Blue Origin; and Masten Space Systems, partnered with XCOR Aerospace. The three groups have released simple, digital renderings of what their XS-1 designs would look like.

DARPA announced in April that it had received funding from the Obama Administration to move into Phase 2. This week's announcement puts a final deadline on XS-1 design proposals, which can include previously tested technologies or totally new ideas. The call for proposals is open to anyone, not just those companies that have already received funding.

The military has another reusable space plane in operation: The X-37B space plane, which hops a ride aboard a rocket and can then orbit the Earth for months at a time. Built by

Boeing, the two X-37Bs have launched on a total of four missions in six years. Just what they're doing up there is a mystery; most X-37B payloads are classified.

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13 THINGS YOU NEED TO KNOW ABOUT MU-MIMO WI-FI

By Eric Geier, Computerworld, May 24, 2016 5:02 AM PT

<http://www.networkworld.com/article/3074321/wi-fi/13-things-you-need-to-know-about-mu-mimo-wi-fi.html?upd=1464397469035>

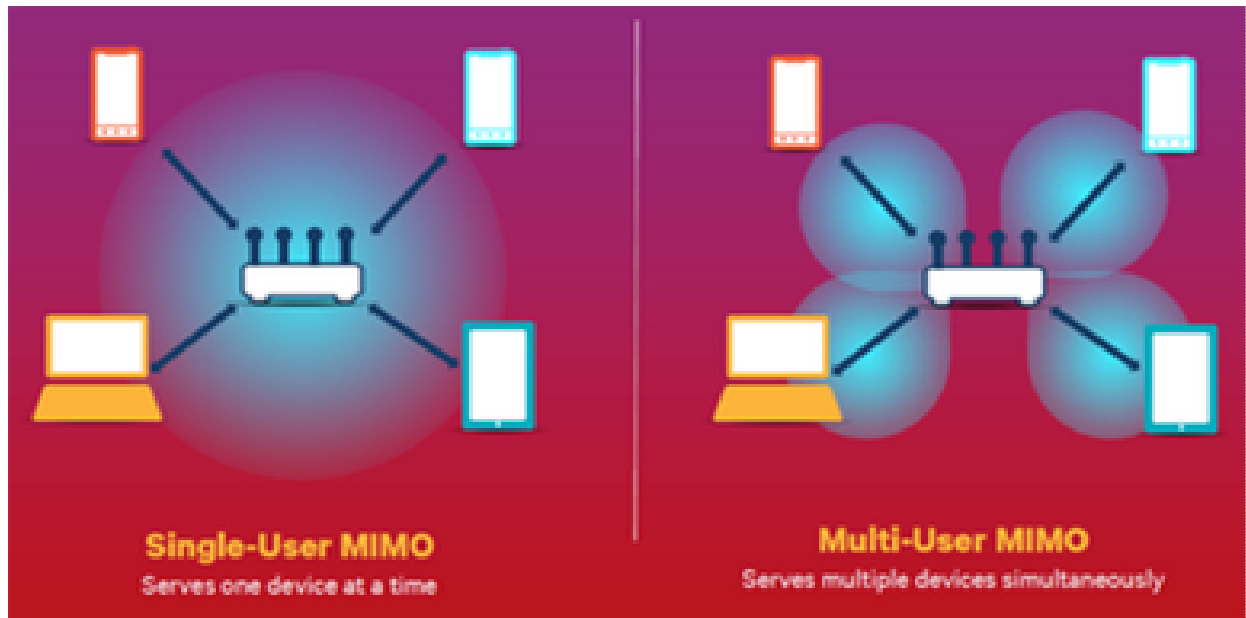


It's been nearly 20 years since Wi-Fi made its debut, and one of its most significant innovations to date is now beginning to spread: MU-MIMO, an optional feature in Wave 2 of the emerging 802.11ac wireless standard.

MU-MIMO stands for multi-user multiple input and multiple output. It builds on single-user MIMO (SU-MIMO), which was introduced close to a decade ago with the 802.11n standard.

SU-MIMO increases Wi-Fi speeds by allowing a pair of wireless devices to simultaneously send or receive multiple data streams. MU-MIMO ups the ante, allowing multiple devices to simultaneously receive the multiple data streams. It is one of the most complex Wi-Fi features to date.

Qualcomm - SU-MIMO technology allows multiple input and output streams with one device at a time, whereas MU-MIMO allows simultaneous communication with multiple devices.



As 802.11ac Wave 2 wireless routers and access points (APs) hit the market, anyone who supports a Wi-Fi network will need to get educated about MU-MIMO. Read on for 13 facts that will help get you up to speed.

1. MU-MIMO APPLIES ONLY TO DOWNLINK CONNECTIONS

It's important to remember that, unlike SU-MIMO, MU-MIMO currently works only with downlink wireless connections. Only wireless routers and APs are able to simultaneously send data to multiple users, whether it's one or more streams of data to each. The wireless devices themselves (such as smartphones, tablets or laptops) still must take turns sending data to the wireless router or AP, although they can individually utilize SU-MIMO to send multiple streams when it's their turn.

For administrators, that means MU-MIMO is more useful on networks where users download more than they upload.

We might see the uplink version of MU-MIMO added to the next big Wi-Fi standard: 802.11ax.

2. MU-MIMO WORKS ONLY IN THE 5GHZ WI-FI BAND

SU-MIMO works in both the 2.4GHz and 5GHz Wi-Fi frequency bands, but MU-MIMO doesn't. Wireless routers and APs can simultaneously serve multiple users only in the higher band. It's unfortunate that the smaller and more congested lower band can't utilize the new technology. But we'll keep seeing more and more dual-band devices that can utilize MU-MIMO, making the effort to deploy the new technology worth it.

3. 'BEAMFORMING' HELPS DIRECT SIGNALS

MU-MIMO uses what's known as 'beamforming,' a separate feature of 802.11ac that directs signals toward the intended wireless device(s) instead of randomly in all directions. Since the signal is more efficiently used, the technology helps increase Wi-Fi ranges and speeds.

Although beamforming was optionally available with 802.11n, most vendors implemented only proprietary versions of it. Those vendors can still include proprietary versions, but they now must include the simplified and standardized version if they choose to support beamforming or MU-MIMO in their 802.11ac products.

4. MU-MIMO DOESN'T SUPPORT UNLIMITED SIMULTANEOUS STREAMS AND DEVICES

Unfortunately, a MU-MIMO router or AP can't simultaneously serve unlimited streams and devices. A router or AP has a certain number of streams it supports, often three or four, and that's also the limit on streams it can simultaneously serve. However, a MU-MIMO router or AP can choose to use those streams across multiple devices. For instance, a four-stream AP may choose to simultaneously serve four different one-stream devices or a single one-stream device and a single three-stream device.

5. USER DEVICES DON'T REQUIRE MULTIPLE ANTENNAS

As with SU-MIMO technology, only wireless devices with built-in support for MU-MIMO can receive MU-MIMO signals. But unlike with SU-MIMO technology, wireless devices aren't required to have multiple antennas to receive MU-MIMO streams from wireless routers and APs. If the wireless device has only one antenna, it still can receive one MU-MIMO data stream from an AP.

More antennas would allow a device to accept more simultaneous data streams (typically one stream per antenna), which would be good for the device's Wi-Fi performance. However, including multiple antennas in a device requires more power and space, and adds to its cost. Since MU-MIMO has less taxing hardware requirements than SU-MIMO, device manufacturers are more likely to adopt the new technology.

6. ACCESS POINTS DO THE HEAVY PROCESSING

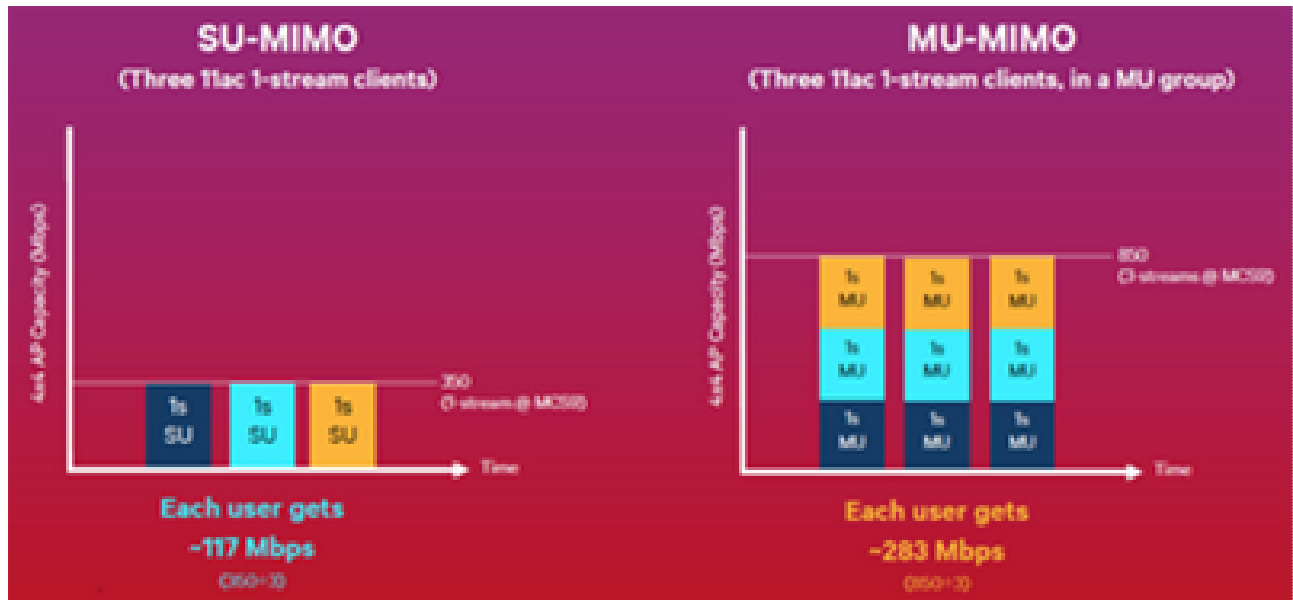
Further simplifying the requirements of end-user devices, MU-MIMO was designed to have the APs do the majority of the signal processing. This is another improvement over SU-MIMO, where the burden of signal processing is on the devices. Again, this can help device manufacturers save power, space and costs in the MU-MIMO devices.

7. SIMPLER DEVICES HAVE THE MOST TO GAIN

You'll see the biggest advantages of MU-MIMO when there are simpler devices on the network that support just one or two streams vs. those supporting three or four streams. That's because the technology doesn't speed up individual connections, but rather increases total network throughput by serving multiple devices at once.

For instance, say an AP supports three streams. If you have only three-stream devices on the network, MU-MIMO won't help increase the total network throughput over what you'd see using SU-MIMO. However, if you have all one-stream devices, MU-MIMO can serve up to three at the same time instead of each device having to wait in line to get transmissions

from the AP. You can expect to see this on most Wi-Fi networks, as most wireless devices support fewer streams.



Qualcomm - MU-MIMO can send three times the amount of data as SU-MIMO in the same amount of time, more than doubling the throughput of each device.

8. SOME DEVICES HAVE HAD HIDDEN SUPPORT FOR MU-MIMO

Although there are currently few routers, APs or mobile devices that support MU-MIMO, Wi-Fi chipmaker Qualcomm says some device manufacturers have included the hardware requirements in select end-user devices for the past few years. For those devices, a relatively simple software update could add support for the new technology, and that in turn could help spread the technology more quickly as networks are upgraded with 802.11ac equipment.

9. NON-MIMO DEVICES WILL SEE A BENEFIT

Although Wi-Fi devices must specifically support MU-MIMO in order to utilize the technology, even those that don't could indirectly benefit on networks where the router or APs support the technology. Remember, Wi-Fi is all about airtime. If MU-MIMO can help serve supported devices quicker, there's more airtime for other devices.

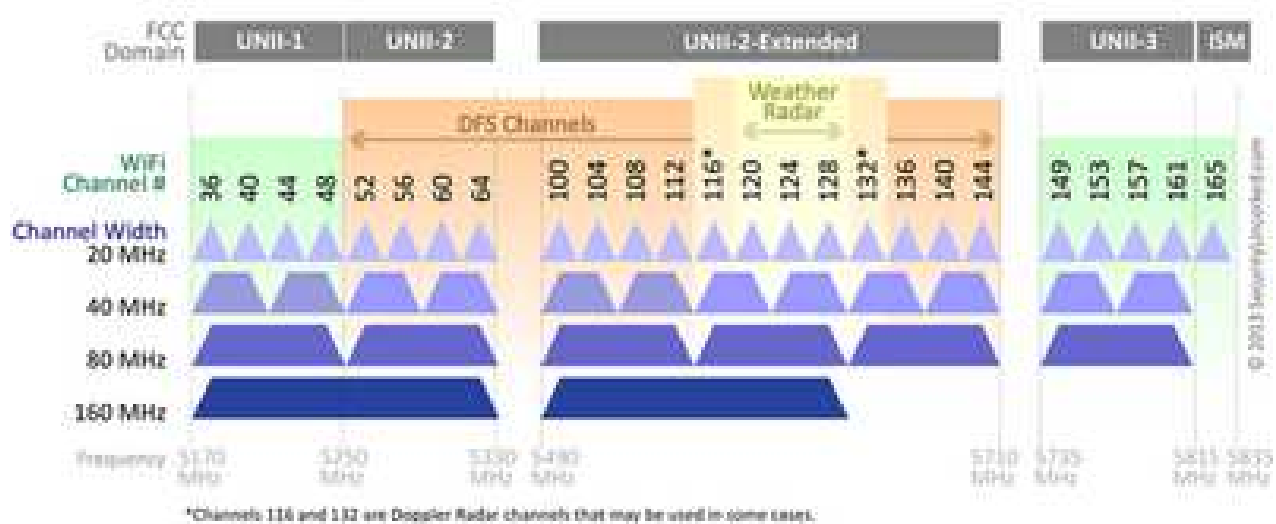
10. MU-MIMO HELPS INCREASE NETWORK CAPACITY

When you increase Wi-Fi speeds, you also increase the network's capacity. As devices are served more quickly, there's more airtime to serve even more devices. Thus, MU-MIMO can help alleviate congestion on busy or dense networks, such as Wi-Fi hotspots — a real boon since the number of smartphones and other mobile devices is likely to keep growing.

11. ANY CHANNEL WIDTH IS SUPPORTED

One way to increase throughput on a Wi-Fi channel is through channel bonding, which combines two adjacent channels to create a single channel that's twice as wide, effectively doubling the Wi-Fi speed. The 802.11n standard supported 40MHz-wide channels, and the first wave of 802.11ac added support for 80MHz-wide channels. Now the second wave of 802.11ac products supports channels as wide as 160MHz.

802.11ac Channel Allocation (N America)



SECURITY UNCORKED

The 802.11ac standard supports channel widths up to 160MHz in the 5GHz band.

"How to configure Wi-Fi channels for top network performance" explains how using larger channel widths cuts down the number of available channels, increasing the chances of causing co-channel interference. That means it might not be the right approach for every network. However, MU-MIMO can be used with any of the channel widths.

Thus, even if your network uses narrower 20MHz- or 40MHz-wide channels, MU-MIMO can help it run faster. How much faster depends on how many supported devices are on the network and how many streams each supports. But using MU-MIMO even without implementing wide channels could more than double the downlink throughput of each device.

12. SIGNAL PROCESSING INCREASES SECURITY

An interesting side effect of MU-MIMO is that the router or AP scrambles data before sending it via the airwaves. By default, only the intended receiving device can decode the data sent with MU-MIMO. Although tools might be developed that allow others to process the traffic, for now, MU-MIMO does mask the data from any nearby eavesdroppers. In that way, the technology helps boost Wi-Fi security, especially on open networks such as hotspots or those secured only with the personal, or pre-shared key, mode of WPA or WPA2.

13. IT'S BEST FOR STATIONARY WI-FI DEVICES

The May 30, 2016, Memorial Day Edition of REVENGE OF HUMP DAY!

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One caveat about MU-MIMO: It doesn't work well with rapidly moving devices, as the beamforming process becomes more difficult and less effective. Thus, the technology might not provide much benefit in networks with constantly roaming devices. However, these problem devices shouldn't affect the MU-MIMO transmissions to devices that are more stationary, nor their performance.

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THREE IN A ROW! SPACE X LANDS ROCKET ON SHIP AT SEA YET AGAIN

By Mike Wall, Space.com Senior Writer | May 27, 2016 05:50pm ET

<http://www.space.com/33004-spacex-thaicom8-launch-rocket-landing.html#sthash.7ercCYRx.dpuf>

VIDEO OF THE SUCCESSFUL LANDING AVAILABLE AT THE WEBSITE.

SpaceX has just scored a rocket-landing hat trick.

The first stage of the company's Falcon 9 rocket came down for a soft touchdown on a ship at sea today (May 27), during the successful launch of the Thaicom 8 communications satellite. Until last month, this dramatic maritime maneuver had never been done; SpaceX has now pulled it off on three straight flights over the last seven weeks.

The two-stage Falcon 9 lifted off from Florida's Cape Canaveral Air Force Station today at 5:40 p.m. EDT (2140 GMT). About 2.5 minutes into flight, the two rocket stages separated; the second stage carried Thaicom 8 to its prescribed geostationary transfer orbit (GTO), and the first stage performed a series of engine burns to head back to Earth. [

Less than 9 minutes after liftoff, the Falcon 9 first stage made a pinpoint vertical landing on the deck of "Of Course I Still Love You," one of SpaceX's two "autonomous spaceport droneships," which was stationed 420 miles (680 kilometers) off the Florida coast. When the smoke cleared and it became evident that the rocket was still standing, SpaceX employees at the company's headquarters in Hawthorne, California erupted in raucous cheers.

The first stage of SpaceX's Falcon 9 rocket sits on the deck of the droneship "Of Course I Still Love You" seconds after landing successfully during a May 27, 2016 launch. Credit: SpaceX

A successful touchdown was by no



means assured. GTO lies far from Earth, meaning the Falcon 9 had to move pretty fast to get Thaicom 8 there.

"Droneship landing challenging — very hot and fast first-stage re-entry," SpaceX representatives said via Twitter Thursday (May 26). (The launch and rocket landing were originally supposed to take place Thursday, but SpaceX pushed things back a day to investigate a possible issue with an actuator in the Falcon 9's upper-stage engine.)

Indeed, today's touchdown put a significant amount of strain on the rocket stage, said SpaceX's billionaire founder and CEO, Elon Musk.

"Rocket landing speed was close to design max & used up contingency crush core, hence back & forth motion. Prob ok, but some risk of tipping," Musk tweeted today.

SpaceX personnel will likely head out to the droneship soon and — provided the booster does indeed stay upright — weld it to the deck of "Of Course I Still Love You," to stabilize the rocket for the journey back to shore.

SpaceX pulled off a similarly difficult droneship landing just three weeks ago. On May 6, the Falcon 9 first stage touched down on "Of Course I Still Love You" during the launch of the Japanese communications satellite JCSAT-14, which also went to GTO.

The first successful droneship landing, which occurred April 8, featured lower velocities: The Falcon 9 had launched SpaceX's robotic Dragon cargo capsule toward the International Space Station, which circles in low-Earth orbit, just 240 miles (386 km) above the planet's surface. (For comparison, GTO lies about 22,245 miles, or 35,800 km, from Earth.)

SpaceX has also landed a Falcon 9 first stage on terra firma once, pulling off that milestone in December 2015, during the launch of 11 satellites for company customer Orbcomm from Cape Canaveral. (On some missions, the Falcon 9 cannot carry enough fuel to make it all the way back to the launch site, and must therefore touch down on a droneship.)

These experimental landings are part of SpaceX's effort to develop fully and rapidly reusable rockets, a key goal of the company. Indeed, Musk has said that such technology could slash the cost of spaceflight dramatically, perhaps even making Mars colonization economically feasible.

SpaceX isn't alone in this line of thinking. Blue Origin, the spaceflight company run by Amazon.com founder Jeff Bezos, is also developing reusable launch systems, and has launched and landed its New Shepard rocket three times since November 2015. Blue Origin's successes all came during suborbital test flights, whereas SpaceX's landings have occurred during orbital launches.

Thaicom 8, which has a design lifetime of 15 years, will ultimately make its way to a circular geostationary orbit and provide communications services for South Asia and Southeast Asia, SpaceX representatives said. The 6,600-lb. (3,000 kilogram) satellite was built by Orbital ATK and will be operated by the Bangkok-based company Thaicom.

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DIAMONDS CLOSER TO BECOMING IDEAL SEMICONDUCTORS

by Staff Writers, Washington DC (SPX) May 27, 2016

http://www.spacedaily.com/reports/Diamonds_closer_to_becoming_ideal_semiconductors_999.html



Along with being a "girl's best friend," diamonds also have remarkable properties that could make them ideal semiconductors. This is welcome news for electronics; semiconductors are needed to meet the rising demand for more efficient electronics that deliver and convert power.

The thirst for electronics is unlikely to cease and almost every appliance or device requires a suite of electronics that transfer, convert and control power. Now, researchers have taken an important step toward that technology with a new way to dope single crystals of diamonds, a crucial process for building electronic devices.

"We need the devices to manipulate the power in the way that we want," said Zhengqiang (Jack) Ma, an electrical and computer engineering professor at the University of Wisconsin-

Madison. He and his colleagues describe their new method in the Journal of Applied Physics, from AIP Publishing.

For power electronics, diamonds could serve as the perfect material. They are thermally conductive, which means diamond-based devices would dissipate heat quickly and easily, foregoing the need for bulky and expensive methods for cooling. Diamond can also handle high voltages and power. Electrical currents also flow through diamonds quickly, meaning the material would make for energy efficient devices.

But among the biggest challenges to making diamond-based devices is doping, a process in which other elements are integrated into the semiconductor to change its properties. Because of diamond's rigid crystalline structure, doping is difficult.

Currently, you can dope diamond by coating the crystal with boron and heating it to 1450 degrees Celsius. But it's difficult to remove the boron coating at the end. This method only works on diamonds consisting of multiple crystals stuck together. Because such polydiamonds have irregularities between the crystals, single-crystals would be superior semiconductors.

You can dope single crystals by injecting boron atoms while growing the crystals artificially. The problem is the process requires powerful microwaves that can degrade the quality of the crystal.

Now, Ma and his colleagues have found a way to dope single-crystal diamonds with boron at relatively low temperatures and without any degradation. The researchers discovered if you bond a single-crystal diamond with a piece of silicon doped with boron, and heat it to 800 degrees Celsius, which is low compared to the conventional techniques, the boron atoms will migrate from the silicon to the diamond. It turns out that the boron-doped silicon has defects such as vacancies, where an atom is missing in the lattice structure. Carbon atoms from the diamond will fill those vacancies, leaving empty spots for boron atoms.

This technique also allows for selective doping, which means more control when making devices. You can choose where to dope a single-crystal diamond simply by bonding the silicon to that spot.

The new method only works for P-type doping, where the semiconductor is doped with an element that provides positive charge carriers (in this case, the absence of electrons, called holes).

"We feel like we found a very easy, inexpensive, and effective way to do it," Ma said. The researchers are already working on a simple device using P-type single-crystal diamond semiconductors.

But to make electronic devices like transistors, you need N-type doping that gives the semiconductor negative charge carriers (electrons). And other barriers remain. Diamond is expensive and single crystals are very small.

Still, Ma says, achieving P-type doping is an important step, and might inspire others to find solutions for the remaining challenges. Eventually, he said, single-crystal diamond could be useful everywhere - perfect, for instance, for delivering power through the grid.

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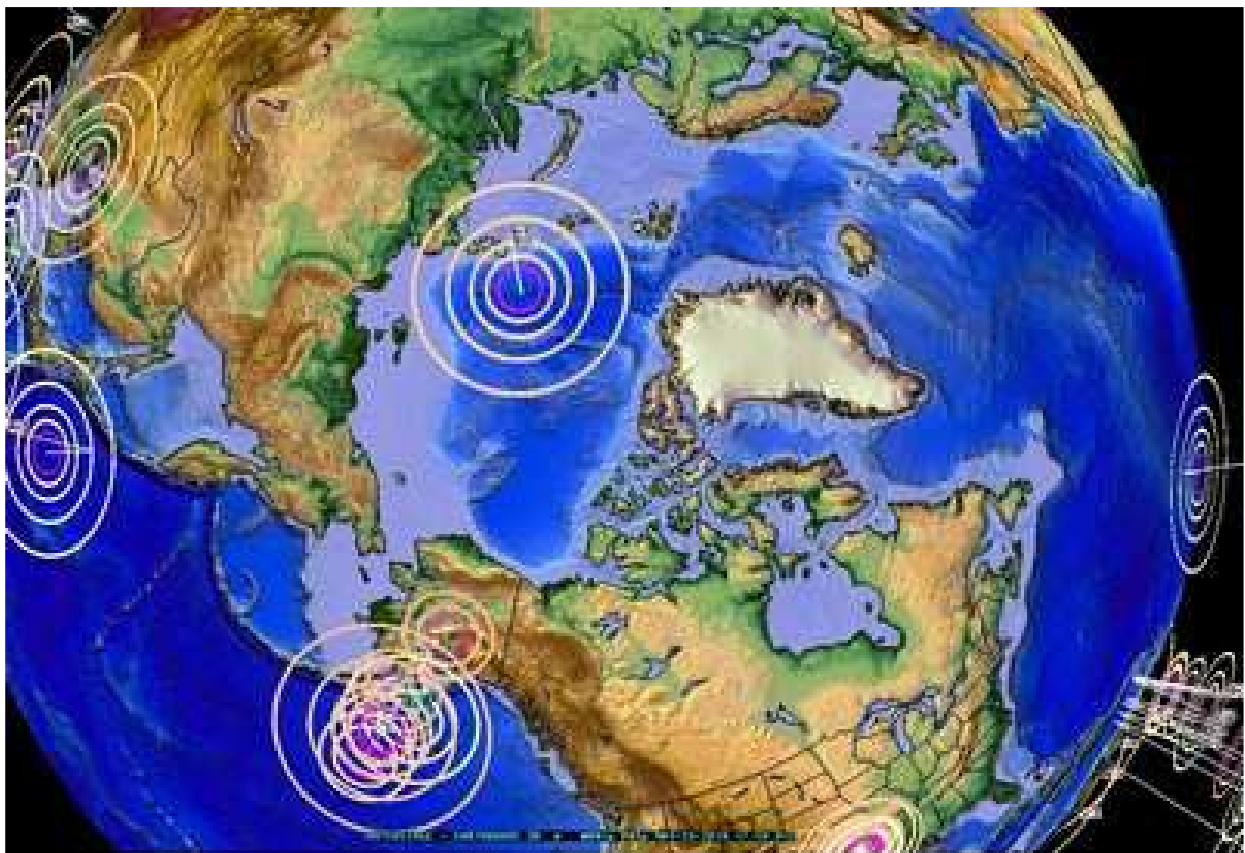
From: "Randy Bovell" crbovell@epbfi.com

5/23/2016 — SUPERVOLCANO DISCOVERED AT THE NORTH POLE — MOUNT DUTCH UNDERSEA SUPER VOLCANO CALDERA

MAY 23, 2016 MICHAEL JANITCH LEAVE A COMMENT

<http://dutchsinse.com/5232016-supervolcano-discovered-at-the-north-pole-mount-dutch-undersea-super-volcano-caldera/>

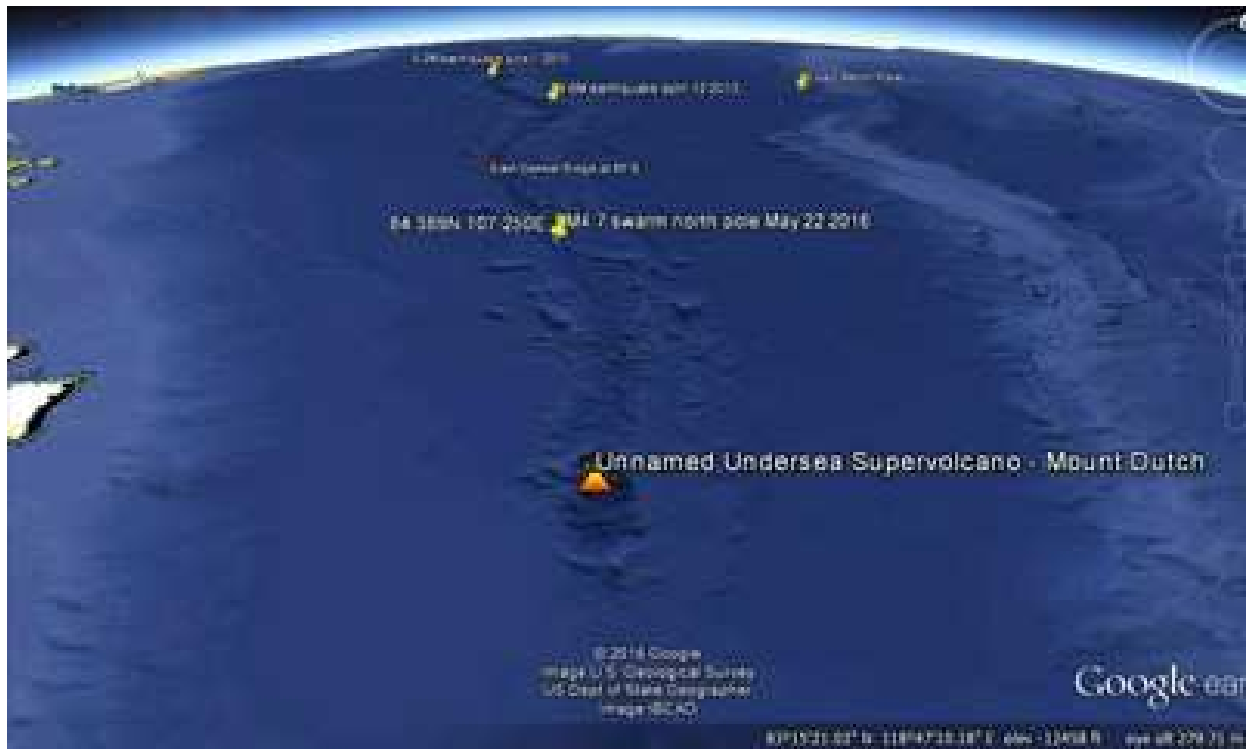
An earthquake swarm broke out near the North pole over the past few days (May 21-23, 2016)



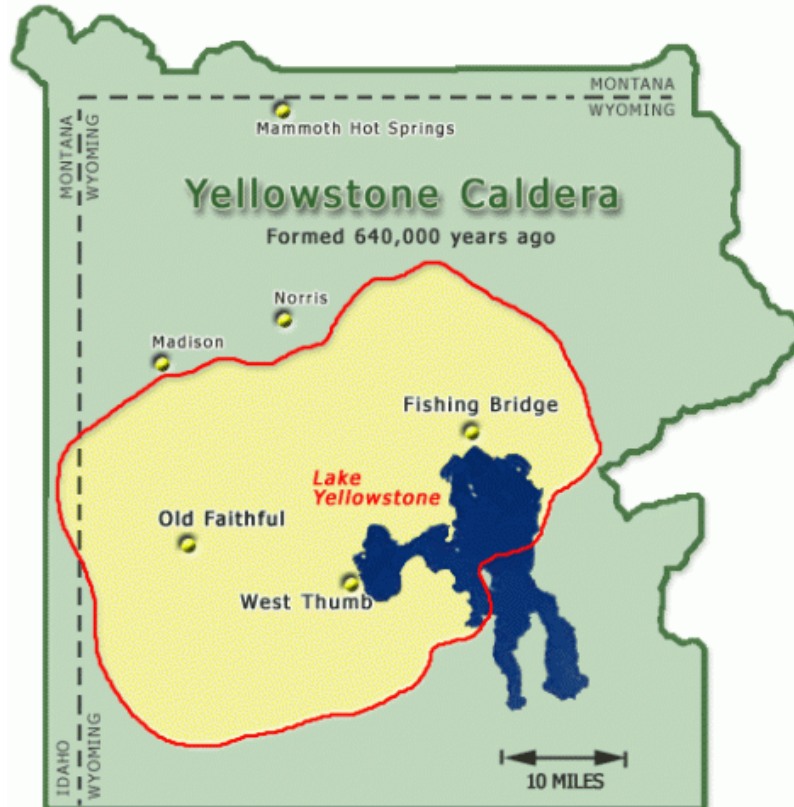
Upon inspection of the area, I found an UNNAMED supervolcano at the Northernmost portion of the Mid-Atlantic Ridge, at the tip of the North Pole. Coordinates of the caldera here:

81 32 38.90 N , 119 48 1.02 E

I hereby declare that the unnamed / undiscovered super-volcano at the North Pole, the location of the earthquake swarm currently happening... is now to be called Mount Dutch.



The supervolcano resides at the far North Tip of the North Mid-Atlantic ridge, and is not just a “volcanic field” like the professionals have reported.



A supervolcano caldera measuring 110km / 68 miles long, and 48km / 30 miles wide is at the location in question.

In perspective, this supervolcano is larger than Toba Supervolcano in Indonesia, and greater than the overall size of Yellowstone in Wyoming.

Toba Supervolcano is approximately 60 miles long and 25 miles wide.

Yellowstone Supervolcano is approximately 60 miles across (100km).

As the discoverer of this undersea supervolcano at the North Pole, I think it would be

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very prudent at this point to begin a study of the location in detail. Hopefully we can find out much more about this location now that we've determined a super-volcano caldera is present.

The "Mount Dutch" North Pole supervolcano caldera needs MUCH more investigation.

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From: Stephanie Osborn

VIDEO: NEW 'SUPERBUG' BECOMES FIRST DRUG-PROOF BACTERIA TO HIT U.S.

May 26, 2016 at 6:30 PM EDT

<http://www.pbs.org/newshour/bb/new-superbug-becomes-first-drug-proof-bacteria-to-hit-us/#.V0ekUsFHFSE.facebook>

A 49-year-old Pennsylvania woman has been found carrying a strain of E. coli that is resistant to last-resort antibiotics, which researchers say marks the first appearance of a drug-proof bacteria on U.S. soil. Scientists in Pennsylvania are working with the Centers for Disease Control to find a way to fight the superbug. Hari Sreenivasan talks to Dr. Beth Bell of the CDC for more.

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ABSOLUTELY & TOTALLY POLITICALLY INCORRECT & AS FAR TO THE CENTER AS YOU CAN GO!

From: "Jim Woosley" Jimwoosley@aol.com

Even "Snopes" admits this is "True", but of course that's just the accuracy of the quote, not the "thought".

Theodore Roosevelt's 1907 photo



Theodore Roosevelt's ideas on Immigrants and being an AMERICAN in 1907.

'In the first place, we should insist that if the immigrant who comes here in good faith becomes an American and

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assimilates himself to us, he shall be treated on an exact equality with everyone else, for it is an outrage to discriminate against any such man because of creed, or birthplace, or origin. But this is predicated upon the person's becoming in every facet an American, and nothing but an American...There can be no divided allegiance here. Any man who says he is an American, but something else also, isn't an American at all. We have room for but one flag, the American flag.. We have room for but one language here, and that is the English language.. And we have room for but one sole loyalty and that is a loyalty to the American people.'

Theodore Roosevelt 1907

Every American citizen needs to read this!

God Bless America

If you would like to unsubscribe From: THE REVENGE OF HUMP DAY, please send an email message to Tim Bolgeo tbolgeo@comcast.net and say, "QUIT SENDING ME THIS STUPID RAG!"
