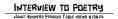


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Joining commuters driving toward the Chicago Loop,

I watched majestic skyscrapers frame the skyline,

as I witnessed over Lake Michigan early morning clouds —

thin at the top, each cloud looked like a snow-capped mountain,

framing this flat-land city, and surrounding the skyscraper skyline...

But all those clouds were only formed in the mornings

by the early morning weather, pulling water daily from Lake Michigan.

When the water from the lake is warmer than the dew point,

water rises until the air is cold enough so that lake water forms those clouds.

But the thing is, Lake Michigan is more than hydrogen and oxygen —

at times they even warn the public to not go into the unsafe water

(The same water Chicago filters for everyone to shower in, or drink).

INTERVIEW TO POETRY

So I checked some of the studies on what foreign compounds

Lake Michigan actually contains — at times you can find everything

from cadmium, mercury, lead or zinc, to copper, chromium, even selenium.

That list included harmful elements, but the numbers that were really

off the charts came from Cerium. Cerium acts like calcium

in the human body, and you can find a lot of Cerium in tobacco plants —

and with Cerium's moderate toxicity, prolonged exposure can lead to

itching, heat sensitivity or skin lesions. And wait a minute, Cerium can

spontaneously ignite if the air is hot, and you may be thinking

that if Cerium's in water it should be safe, but water can't be used

to stop a Cerium fire, since Cerium reacts with water to make hydrogen gas.

Well, if Cerium fire fumes are toxic, then so much for Lake Michigan being

good for you — even when Chicago has multiple water purification plants.

Because Cerium in the water that forms those morning clouds

is one thing, but no matter the toxicity of Cerium, remember that us humans

are over seventy percent water. With all the compounds

that Cerium goes into, it's probably best if Cerium's left

to it's industrial uses, instead of working it's way in our water...

And besides, it's nice to think that those beautiful morning clouds

framing the Chicago skyline with snow-capped mountains

are actually more than just hydrogen and oxygen, because every once

in a while, look at that morning sky. Because in just the right way,

a little Cerium can really go a long way.



When the bulldog ant of Australia is cut in half, the halves see each other as enemies.

The head attempts to devour the tail. And the tail, in an effort to defend itself,

battles for up to thirty minutes to sting the head. And this battle happens everywhere

in the world, because life is always that battle between the two halves of the whole.

#

Because everything contains that twin, one part good, and one part you've construed into something

so horribly wrong. And you want to tear it apart, that other half, you despise everything about it —

everything that somehow is a part of you. So you, in life, always possess that battle.

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This even applies on a molecular level. Consider hydrogen: it's in our water we drink and bathe in,

and atomically, we're sixty-seven percent hydrogen. But on November first nineteen fifty two,

"Ivy Mike" was the code name for the first successful test of the hydrogen bomb.

It's funny how we can take something so needed for our life and, like our sun, turn it into something

to destroy everything we know. Because as I said, one side gives life, the other kills.

#

And thanks to "Ivy Mike" and that hydrogen bomb, two elements were discovered —

one of them was named after physicist Enrico Fermi. You see, Fermi worked on "Chicago Pile-1,"

the first nuclear reactor. Fermi worked in a space under Chicago University's then unused

football stadium bleachers. That's because the school had not used the football stadium for three years, because the school thought sports were a distraction from academics.

Fermi, "the father of the atomic bomb". also worked on the Manhattan project, and Fermilab

outside of Chicago was named after him. And here's the kick: the hydrogen device that produced

Fermium was designed by Richard Garwin, Enrico Fermi's student. So for all that Enrico Fermi had done,

it seems fitting that Fermium is the heaviest element formed by the nuclear

bombardment of lighter elements (like hydrogen).
And this highly radioactive element

was initially kept secret due to the cold war. But it's amazing what we can discover

while taking something we so need for life, and turning it into an instrument of death.

Because Fermium was classified in the cold war, Swiss scientists bombarding oxygen,

discovering an isotope if it, and wanted to name it centurium (to honor element one hundred).

Good thing Fermi's nuclear work got declassified, so they could honor Enrico Fermi with "Fermium".

But wait, Fermium is bad, it's radioactive, there can't be any good applications for it...

Well, consider the two sides of any twin: Fermium's the only element that can use it's alpha particles

in radio therapy for cancer. And yes, it's radioactive, but it's short half life means it decays

quickly. Because as I said, it's amazing how two sides can be both bad, and also so good.





On the Indonesian island Jawa large turtle skeletons litter the plains,

because after the turtles came in from the ocean to lay their eggs,

swarms of wild dogs there got together and pounced.

Those wild dogs flipped the turtles over, and stripped them completely from their shells

before they ate them alive.

Because we have to remember that life is a constant avoidance of death:

since later on, many of those wild dogs who killed the turtles were prey to the tiger,

who later pounced upon them. This is the cycle of life, because every birth

is a prelude to death. Remember this. Don't forget.

INTERVIEW TO POETRY

Keep in mind that elemental Polonium changes in a nuclear reactor to form Polonium-210...

Because the former Russian agent Alexander Litvinenko was the first man

to be poisoned to death from lethal Polonium-210-induced acute radiation.

So yes, because life is a prelude to, and a constant avoidance of death,

this Polonium-210 poisoning marked the beginning of an era of nuclear terrorism.

#

I know, I know, this is only a part of Polonium, and they found

that Polonium's electrical conductivity changes with it's temperature, making it perfect

for eliminating static electricity. And because of it's short half-life,

it's decay generates heat, so it's a convenient and light source to generate

thermo-electric power in space satellites and lunar stations because it's great

JANET NUMPERS PERIODIO TABLE POEMS 8/28/10

that for space no moving parts are required for power from Polonium.

Yes, I know it's radioactive, Marie Curie discovered Polonium

(named for her homeland Poland), she even coined the phrase "radioactivity" while

working. She even worked so diligently that on her own wedding day she wore a black dress —

because she could then wear it for the work she later had to do.

#

Marie Curie wore a black dress to her own wedding; maybe she knew

that life is a constant avoidance of death. Life is just a prelude to death,

because though Polonium otherwise seems like a relatively harmless element,

Polonium-210 can still be used as just the right element for nuclear terrorism.

LATERVIEW TO POETRY JAMET KLUSPERS PERIODIC TABLE POEMS 8/38/13

With Polonium, there's much to learn. Because when alloyed, it can be

a portable neutron source, Polonium is even used in making photographic plates.

But then again, Polonium's the only component of cigarette smoke

found in lab rats to produce cancer. Polonium was produced in World War II's

Manhattan Project — it was even part of the design of the Fat Man bomb

on Nagasaki. Yeah, Polonium has many good qualities to us humans,

but kep in mind that life is still a constant avoidance of death.

So despite what good we look for in Polonium, this element can also be

the instrument of death. Remember this. Don't forget.



JANET KUYPERS

SCARS PUBLICATIONS

published in conjunction with **CC&d** magazine

the UN-religious, NON-family oriented literary and art magazine ccandd96@scars.tv http://scars.tv INTERNET ISSN #1555-1555 ISSN 1068-5154

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Magazine S: Children, Churches and Daddies (cc&d magazine), founded June 1993; Down in the Dirt, conceived 1994, founded 2000

Books: Hope Chest in the Attic, the Window, Close Cover Before Striking, (Woman.), Autumn Reason, Contents Under Pressure, the Average Guy's Guide (to Feminism), Changing Gears

BOOKS Report in the Artic, the Window, Goes Cover Before Stiding, (Woman), Autumn Recoon, Contents Under Pressum, the Average Gny's Golde (to Femician), Changing Genry, the No fy to Balleving, Domantic Bilister, Et., Owere, Euro Werras, Carte, the North School, Common Recoon, Contents Under Pressum, the Average Gny's Golde (to Femician), Changing Genry, the North School, Common Recoon, Contents Under Pressum, the North School, Common Recoon, Contents Under Pressum, the North School, Common Recoon, Contents, Contents, Common Recoon, Common Recognition, Common Recoon, Common Recognition, Common Recoon, Common Recognition, Com

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