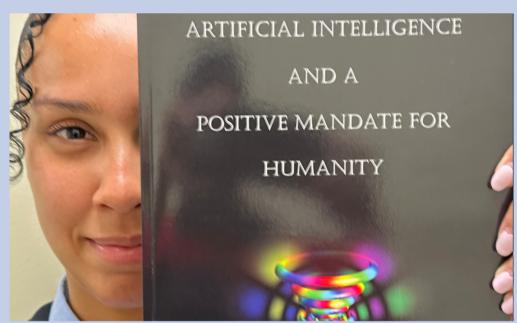
### THE FORTRESS

Stronghold of free speech and thought!

**AUGUST 2023** 

## A SPECIAL IAIJ IN-DEPTH REPORT ON ARTIFICIAL INTELLIGENCE



ARTIFICIAL INTELLIGENCE AND A POSITIVE MANDATE FOR HUMANITY - PUBLISHED!







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FOR MORE INFORMATION PLEASE VISIT OUR WEBSITES:
WWW.FORTRESSOFFREEDOM.COM
WWW.IAIJ.ORG

#### THE FORTRESS

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The Fortress is dedicated to the preservation of freedom of speech and thought. It is a publication that is accessible to all who desire to tell the news to their fellow citizens, as they see it.

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#### **WELCOME TO THE FORTRESS!**



Maurice Ali

This issue is special in that we are slowly coming back from the Covid 19 Pandemic. Most news reporting by citizen journalists were restricted by the pandemic and many improvements to citizen journalism have regressed during that time. But that is the past and IAIJ intends to re-invigorate the spirit of citizen journalism yet again!

But that was the IAIJ side of it, on the entertainment side at FOF we saw new music at our record label called FOF Records Inc. located in Toronto (Canada). All music was made to the strict Covid 19 protocols of the day. Even so, musicians were still unable to perform live. However, that is changing and we are now actively attempting to start FOFSTOCK 2 as not only a music festival but a many venue festival spanning two days in the summer of 2024 in Toronto, Canada!

Finally we have another in-depth report on the concept of AI and the Positive Mandate for Humanity. That advocacy is on-going as well as that new Global Social Contract we are also advocating!

So from all of us at IAIJ and FOF, we hope you enjoy this edition of The Fortress!

Maurice Ali, President

Fortress of Freedom Inc. / FOF Entertainment Inc.

International Association of Independent Journalists Inc.

International Archiving of Independent Journalists Inc.

FOF Records Inc. / More Vision Inc./FOFSTOCK (Inc.)

### NEWS ARTICLES FROM IAIJ JOURNALISTS

#### **Issues Surrounding Menstruation in Kenya**

April 20, 2023

By Joan Githiomi (Kenya)

There are many matters surrounding the topic of menstruation in Kenya especially for poor young girls and women. It would surprise many that there would be such weighty matters to discuss in regards to menstruation. The beginning of menstruation and subsequent menstrual periods spells doom for some women and young girls in Kenya especially the poor. What should be celebrated as a transition into womanhood becomes a nightmare for many girls and is even associated with negative life altering situations. These issues revolve around affordability of sanitary towels, the cultural impact of menstruation on young girls and women and the stigma surrounding menstruation and menstruation hygiene. These issues cannot be associated to people of a certain locality but affect the poor in general all over the country.

When we mention menstruation in some countries it is attached to positives concerning the menstruations cycle, handling of painful menses, proper use of sanitary towels and preparation of young girls on menstruation cycle and reproductive health. However, their exists so much stigma and taboo about menstruation in most Kenyan cultures. In some cultures, menses are to be hidden and a lot of shame is associated with being on your menses. Women are considered unclean and dirty. This alone creates a lot of trauma surrounding menses. Menstruation is so silently discussed or is an undiscussed topic. So bad is this matter that young girls cannot share with their parents the onset of menstruation.

This leads to young girls receiving misinformation from their peers or being taken advantage of by adults with ulterior motives.

A lot of education on menstruation needs to be conducted on young girls, parents and guardians so that they are able to appropriately explain to young girls what is happening to their bodies, what to expect and how to handle menstruation. The silence and shyness of parents on menstruation discussions is a danger because these young girls lack information on the relation between the onset of their menses the dangers of getting pregnant. This contributes to unwanted teen pregnancies' which are associated and directly linked to dropping out of school and early marriages.

One of the most worrying aspects of menstruation is that it closely relates to the risk of girls early marriages. A girl in Kenya is most at risk at the point of starting their menstruation it signifies a turn into adulthood. Among the adults in some cultures, it signifies a young underage girls' readiness to get married and have children. It is at this point where life altering decisions are made for the girl. These girls are mostly married off to older men. Cutting short their education and exposing them to a life of hardship and poverty.

Most affected are young girls and women in informal settlements and in the arid and semi-arid areas. The effects are that young girls are not able to receive the support they need in terms of material for menstrual use and also sex education which is crucial at this stage. A lot of effort needs to be done to counter this as young girls need to be taught use of proper material.

Finances greatly affect the affordability of sanitary towels and tampons. These basics are unaffordable to poor families who have to survive on meagre pay that only affords them basic shelter and food. To set aside money for sanitary towels becomes such a hard task and almost a non-priority. Young girls are forced to use rags, old clothes, leaves, cow hides and other unsanitary items to absorb their menstrual flow which has adverse effects on their hygiene. Young girls have been found to suffer and be prone to infections due to poor material used during menstruation and lack of general hygiene associated with menstruation.

Not to mention that some parts of Kenya in informal settlements lack water to even drink let alone take shower which is essential when one is on their menses. Water has to be bought at various water points because informal settlements have no piped water. Arid and semi-arid areas have little to no water and are constantly affected by drought. These are people struggling to find a meal leave alone water. So serious are the issues of menstruation that girls have had to drop out of school because they are not able to manage their menstrual hygiene. The fear of smelling or being laughed at by their peers makes them opt to seat at home where they will not face the shame and ridicule of staining their clothes or being uncomfortable during class time due to poor absorbent clothes and rags used. This absenteeism in girls in class is a big setback to a country that is struggling with gender equality and putting girls at par with their male counterparts in terms of education.

So serious are the issues of menstruation that girls have had to drop out of school because they are not able to manage their menstrual hygiene or receive sanitary towels opting to seat at home where they will not face the shame of staining their clothes or being uncomfortable during class time due to poor absorbent clothes and rags used.

Although some effort has been put by government to support giving of sanitary towels especially in public schools the initiative has not been taken with a lot of seriousness. These programs are not effectively implemented and hardly do the sanitary towels reach their intended targets. The supply is marred by politics, corruption, infrequency and unpredictability.

One of the proposed solutions to sanitary towels scarcity would be the installation of sanitary towels dispensing machines, the building of bathrooms in public schools and the supply of water tanks to schools for water storage by the government and well-wishers.

Another solution would be giving direct funds or monthly stipends to parents with teen girls so that they are able purchase sanitary towels for them.

#### IAIJ at the 61st Session of the Commission for Social Development!

February 18, 2023

By Samantha Blackwell, IAIJ Inc.

The International Association of Independent Journalists Inc. (IAIJ) is pleased to announce that we had a most successful outcome for the 61st Session of the Commission for Social Development (February 6 -15, 2023). Our representative for this session was Maurice Ali who is President and CEO of IAIJ and he has issued this short statement on the event:



Maurice Ali

"I am happy to announce to the Board of Directors and the general membership that IAIJ had a very successful outcome at the 61st Session of the Commission for Social Development. We were able to address the Commission for Social Development with our oral statement about a new Global Social Contract. The idea

nd concept came from a journalist in-depth report called: "A Global Soc	ial

On behalf of myself as President and CEO of the International Association of Independent Journalists Inc., the Board of Directors and the general membership; we would like to extend the following messages of thanks and appreciation. We would like to thank the Bureau for the Commission for Social Development and the Commission for Social Development for a successful session and allowing us to give an oral statement to the Commission for Social Development. Secondly, we would like to thank the support staff at the event from all departments that helped make this session a success; our many thanks to all involved!

In addition to those I have already mentioned, let me give appreciation and thanks to all the participants of the 61st Session of the Commission for Social Development. It was a pleasure to have met many of you and hope to meet you gain at a future session of the Commission for Social Development."

IAIJ: JOURNALISTS IN ACTION AROUND THE WORLD!

FOFSTOCK Endorses IAIJ Advocacy!
January 24,2023
By Samantha Blackwell
The FOESTOCK revision collective and free expression advector every by repisuity.
The FOFSTOCK music collective and free expression advocacy group, by majority vote of its members, has endorsed the freedom of expression advocacy of the
International Association of Independent Journalists Inc.
FOFSTOCK is a not-for-profit music collective advocating freedom of expression in the arts and in general.
the dres and in general.
Please visit our website:
Please visit our website.
hallower //Co Cohorally and a
https://fofstock.com
THE FOFSTOCK MUSIC FESTIVAL!

#### Maintaining Law And Order Is A 24x7 Job: Prime Minister Modi

October31, 2022

By Doruvu Paul Jagan Babu (IAIJ Journalist - India)



Prime Minister Narendra Modi addressing the Chintar Shivir of Home Ministers of States through video conferencing on Friday, 28-Oct-2022, New Delhi.

[b] • Law and order system can be improved with the help of smart technology

- One Nation, One Police Uniform' will give a common identity to law enforcement
- We have to come up with technological advancement to prevent the spreading of fake news
- PM addresses 'Chintan Shivir' of Home Ministers of States

New Delhi (IAIJ):[/b] Highlighting the reforms, the Prime Minister said that several reforms for strengthening the law and order system have taken place in the last

few years that have helped maintain a peaceful environment in the country. He said, 'Maintaining law and order is a 24x7 job.' He further added that it is necessary to work towards advancements and improvements in the processes involved. He mentioned the decriminalization of many things in company law as a step in this direction, he asked the states to also evaluate and get rid of outdated rules and laws.

The Prime Minister Narendra Modi addressed the 'Chintan Shivir' of Home Ministers of States on Friday via video conferencing.

The Prime Minister said that in the Laws enacted by the central government a will to strongly handle corruption, terrorism and Hawala, is clear. 'Laws like UAPA have given strength to the system in a decisive battle against terrorism', he said.

The Prime Minister asked the gathering to consider a single uniform for the police of the states of the entire country. This will not only ensure quality products due to the scale but also will give a common identity to law enforcement as citizens will recognize police personnel anywhere in the country. States can have their number or insignia. 'One Nation, One Police Uniform', I am just putting forward this as a thought for your consideration, he said. Similarly, he emphasized the need to think about developing special capabilities for tourism-related policing. He said tourists are the biggest and fastest ambassadors of the reputation of any place.

The Prime Minister also emphasized the importance of sensitivity and the need to develop a personal touch. He gave examples of calls by police during the pandemic to help people, especially senior citizens. The Prime Minister also asked to strengthen Human Intelligence along with technological intelligence as this cannot be ignored. The Prime Minister also emphasized the need to stay alert against the new challenges that are emerging in the wake of India's growing stature.

Addressing the gathering, the Prime Minister complimented the preparations of the law and order personnel for a peaceful atmosphere during the festival season. He said that the Chintan Shivir is a prime example of cooperative federalism. The Prime Minister said even though law and order are the responsibility of the states as per the constitution, they are equally related to the unity and integrity of the country. 'Every state should learn from each other, take inspiration from each

other, work for the betterment of the country, this is the spirit of the constitution and it is also our responsibility towards the countrymen, he said.

Referring to the ongoing Amrit Kaal, the Prime Minister said that during the Amrit Kaal, an Amrit generation will emerge carrying the essence of the 'Panch Pran'. 'The Panch Pran' must be the guiding force for good governance,' he said.

The Prime Minister said that when the strength of the country increases, then the power of every citizen and every family in the country will get a boost. He said, this is good governance where benefits reach even the last person standing in the queue in every state. The Prime Minister emphasized the link between the law and order system and the development of the states. It is very important for the entire law and order system to be reliable. Its trust and perception among the public are very important, he pointed out. He noted the growing identity of NDRF and SDRF during times of natural calamities. Similarly, the arrival of police at the spot of a crime is taken as the arrival of the government and the Police's reputation got a boost during the Corona period also, the Prime Minister said. He stressed that there is no dearth of commitment and perception of the police needs to be further strengthened. Guiding them in this regard should be our ongoing process, he emphasized.

The Prime Minister pointed out that crime is no longer localized and instances of interstate, international crimes are going up. That is why mutual cooperation between state agencies and between central and state agencies is becoming crucial. He pointed out, whether it is cybercrime or the use of drone technologies for the smuggling of weapons or drugs, the government needs to keep working towards new technologies to tackle the menace. The law and order system can be improved with the help of smart technology, the Prime Minister remarked. He said 5G, along with its benefits, brings the need for a heightened alert. He requested the Chief Ministers and Home Ministers to seriously assess the need for technology, going beyond the constraints of the budget as this technology will percolate the confidence of security among common citizens. The Prime Minister mentioned the Police Technology Mission of the Central Government, however, he stressed the need for a common platform as differing technologies of different states do not talk to each other. We should have a pan India outlook, all our best practices should be interoperable and should have a common link, he said. He asked the state agencies to develop capabilities in forensic science and take full advantage of the National Forensic Sciences University of Gandhinagar.

Pointing out the possibilities of social media, the Prime Minister said that one should not limit it to being the source of information. He said that a piece of single fake news has the capability to snowball into a matter of national concern. The Prime Minister lamented the losses that India had to face due to fake news about job reservations in the past. He stressed the need to educate people about analyzing and verifying any piece of information before forwarding it to people. "We have to come up with technological advancement to prevent the spreading of fake news", he added. The Prime Minister also threw light on the need for civil defense in the country and urged the firefighters and the police to conduct drills in schools and colleges so that the students get acclaimed to the idea.

Reiterating the need to obliterate the ground network of terrorism, the Prime Minister remarked that every government in its own capacity and understanding is trying to do their part. The PM said that it is the need of the hour to come together as one and handle the situation. He added, "Every form of Naxalism, be it the one with guns or the one with pens, they have to be uprooted to prevent them from misleading the youth of the country." The Prime Minister warned that such forces are increasing their intellectual sphere to pervert the minds of coming generations. For the sake of the unity and integrity of the nation and with the inspiration of Sardar Patel, we cannot allow any such forces to flourish in our country. Such forces get significant help internationally, he added.

The Prime Minister highlighted that in the last eight years, the number of Naxal-affected districts in the country has come down significantly. "Be it Jammu and Kashmir or North East, today we are moving fast towards permanent peace. Now we have to focus on rapid development in all these sectors including infrastructure", he added. The Prime Minister informed that today, the central government is working on a mission mode for development in the border and coastal areas to promote reverse migration. He also suggested that it can go a long way in stopping the smuggling of weapons and drugs in these regions. The Prime Minister asked for increased cooperation from the border and coastal states to get these plans into execution.

In concluding the address, the Prime Minister requested to seriously study the suggestions that have emerged from the DGP conferences over the years. The Prime Minister asked the police force to assess their vehicles in light of the new scrappage policy. Police vehicles should never be old as it is related to their efficiency.

The Prime Minister assured that if we move forward with a national perspective, every challenge will fall short in front of us. In this Chintan Shivir, a roadmap along with better suggestions will come to the fore. I wish you all the very best.



Prime Minister Narendra Modi addressing the Chintar Shivir of Home Ministers of States through video conferencing on Friday, 28-Oct-2022, New Delhi.

(Source: PIB/TYP/IAIJ/BIN/DPJB)

TWO DAYS ON A POTI MARARA WITH A TAHITIAN FISHERMAN October 7, 2022
By Mark Kolsen (United States of America)
Captain J.P. Tchen is proud of his fishing boat, "O'Hopu 4." After years of fishing in three smaller boats, the 53 year old Tahitian–with considerable help from family and friends–bought his lime green 24 foot poti marara for \$130,000 in 2014. The boat enables him to earn a living for his family, and to "pay back" his donors with frequent deliveries of bonito and yellowfin tuna, the two species he hunts daily. And if those donors would also like to fish, swim, or just take a boat ride to Papeete, J.P. happily obliges.
Originally designed in 1962 for Tahitian spearfishermen, the poti marara is now a common site on the strait between Tahiti and Moorea, where Captain Tchen lives with his wife Jacqueline and extended family. Tahitian subsistence fisherman like him have equipped the boat with rod holders, outriggers, and trolling tackle. Given the high price of gas, ice, and the equipment needed to land big tuna, it's a high overhead business. His two Shimano Targas 130 reels cost \$2000 apiece in Papeete. And his fuel hungry Volvo penta inboard/outboard requires regular professional maintenance.
J.P. derives his income from his daily catch. Our first day on the water, he landed twelve 20 pound bonitos, which were kept on ice in the 8 foot cooler standard on all

poti mararas. On shore, Gipper split the fish in half and bagged each half in plastic. His wife then sold them at a roadside stand adjacent to the marina. On average, each half fish sold for \$20 to passersby in automobiles or on bikes; five fish halves were given to family members.

But on our second day, with the help of first mate Eric Tehou, J.P. landed two big tuna, one at 154 and the other at 132 pounds. A phone call to Jacqueline spread the word, and at the dock I watched as buyers arrived quickly to buy a share of the catch. One buyer bought a whole tuna, dressed, for \$5 a kilo (2.2 lbs). Other buyers vied for the huge steaks J.P. cut from the larger fish. In less than an hour, the fish was sold.

The fast sale was no surprise. In Tahiti, the national dish is poisson cru, raw fish marinated in lime juice and coconut milk. And yellowfin tuna is everyone's favorite 'raw fish'; in fact, tuna is the only fish used in Moorea restaurants serving poisson cru.

Catching tuna requires hard work, patience, and superb eyesight. As he fishes, Captain Tchen pays no attention to sonar or other fishing boats. In all directions, he scans the horizon for hovering birds. If a small flock of 10 or 20 birds is circling above the water, he points and says "big tuna there," and races to that spot. If a larger flock–sometimes hundreds–is tightly gathered and diving for bait fish in the water, he usually pronounces "bonitos there." Somehow he knows if "large" or "small" bonitos are lurking below.

Usually Captain Tchen trolls only one bait on one rod, a large rapala-type body bait that caught both tuna. As his boat approaches a flock of birds, he reduces engine speed and likes to troll perpendicular to the direction of the waves. But if the birds suddenly move—and they often do—he slides his "joystick" in their direction and follows them. (On a poti mara, there is no steering "wheel.") During the morning,

J.P. concentrates intensely on bird watching because—as he says—"by 9.a.m tuna fishing finished."

But bonitos are a different story. On our first day, he suddenly sprang from the boat cockpit and grabbed a cane pole rigged with a rope, leader and small stainless steel "spoon" with a large hook (see photo). He then ran to the stern and dangled the spoon in front of a visible school of large bonitos. I then watched in amazement as he hooked, and hurled,--one by one-twenty pound bonitos out of the water and into the boat. In less than 15 minutes, twelve large fish were flopping around the deck. And for the first time that day, Captain Tchen. drank lustily from the water bottle.

Bonitios are also caught on trolling rods or, more commonly, by hand lines baited with small artificial squids. Fishermen spool out 40 or 50 yards of line, hold the lines with one hand and then swing their arms back and forth to imitate a wounded bait swimming in the water. If a bonito strikes, the line and struggling fish are retrieved "hand over hand." In the case of a big bonito, it is advisable to wear a pair of gloves or nurse bloodied hands after the fish is landed.

The Tahitian poti marara should interest U.S. boat manufacturers, who are increasingly mechanizing sailboats to accommodate solo sailors. In a poti marara, solo fishermen like J.P. can sit safely in the deep forward cockpit, set lines, and retrieve fish from the same position. The high forward cockpit offers exceptional visibility. In order to net or gaff a big fish, a captain must hop from the cockpit on to the deck, but with a deep V hull comprising 6600 pounds of fiberglass, O"Hopu 4 didn't pitch a foot, even in 6 foot waves. And the long ice chest makes fish storage—in fact, all kinds of storage—quick and easy to access.

Yet, as used by Tahitian subsistence fishermen like J.P., the poti marara has major disadvantages. With its single i/o engine, his heavy boat is relatively slow,

designed for big water trolling, not high speed tournaments. From miles offshore, racing home to beat an oncoming storm could be a challenge. And with its heavy weight, the craft uses fuel efficiently. Plus, with no canvas or hard top, fishermen on a poti marara are also exposed to the blazing sun.

To solve these problems and increase the boat's versatility, Marinalu, a boat builder located on the French Polynesian island of Raiatea, has modified the original design. Its new M23 poti marara, similar in size to O'Hopu 4,, is made of an aluminum alloy with a bare hull weight of only 2500 pounds yet can accommodate outboard motors to 300 hp, Compared to Captain Chen's craft, this boat can fly! Moreover, the new design includes a permanent awning with a "plastic" cover for sun protection, as well as a cockpit with "rear access," allowing a captain to slide in and out it easily. Finally, unlike traditional poti mararas, which were designed for one fisherman and offered passengers only awkward seating on the cooler, the M23 provides seating, with underneath storage.

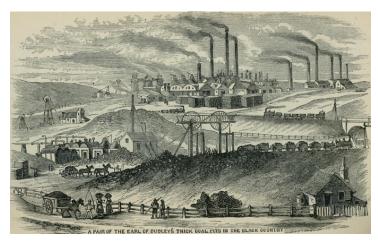
As a fisherman who often fishes alone on big water like Lake Michigan, the newly designed Marinalu poti-marara is a preferable alternative to the center consoles built by many American manufacturers. It is also a good alternative to the many heavy duty aluminum fishing boats now spreading from the Northwest to other American states, such as the Thunder Jet. U.S. boat builders, please take note.

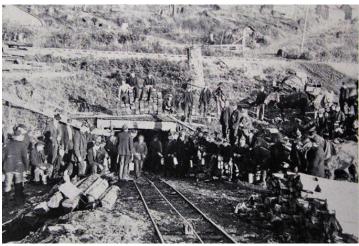
#### **Active Coal Phenomena**

August 27, 2022

By Daniel Jessop (Germany)

Most of us have known coal/charcoal with some of these images in mind:





or this...



While there are many usages for coal/charcoal such as heating, BBQ, water filtration, masks etc. there is another series of applications related to health.

It is known as activated charcoal. Activated charcoal is created when ordinary charcoal is heated to a very high temperature. When this happens, the elements and compounds bound with the carbon atoms are removed and all the binding sites for carbon are "free" for binding with incoming molecules and atoms and facilitating detoxification in the human body.



The main differences between charcoal and activated charcoal are:

- \*Activated charcoal is produced at higher temperatures than charcoal
- \* Activated charcoal is much more porous than charcoal
- \* Activated charcoal is more effective in filtering material than charcoal
- \* Activated charcoal is more commonly used in medicine than charcoal

There is a lesser-known type of activated charcoal produced from coconut shells.



There has been a large amount of research and practical applications for a series of health related issues. Here is a short list:

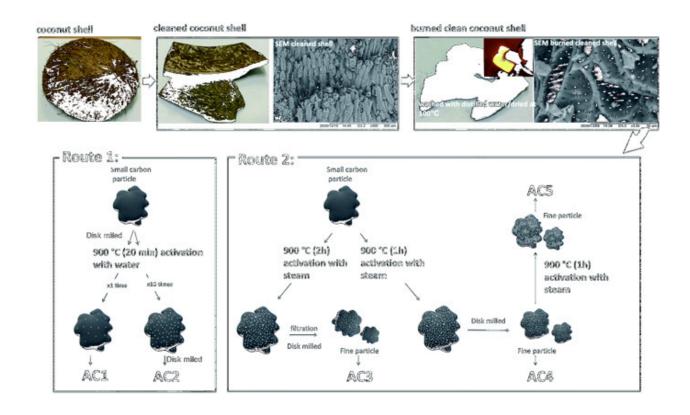
- \* Binds to toxic chemicals
- \* Improves skin health
- \* Improves cholesterol levels
- \* Cleanses the digestive tract
- \* Reduces gas and bloating
- \* Acts as a third kidney (successes in reversing the need for kidney dialysis)
- \* Improves skin health
- \* Relieves insect bites and bee stings

The coconut shell-based activated charcoal is the main go to product. It is manufactured in the form of powder, capsules or tablets.

The most active vegetable charcoal would seem to be that obtained from the carbonization of coconut shells, which would have 25 times the adsorption power.

\*Note the difference between adsorption and absorption: [b]Absorption[/b] is where a liquid is soaked up into something like a sponge, cloth or filter paper. The liquid is completely absorbed into the absorbent material.

**Adsorption** refers to individual molecules, atoms or ions gathering on surfaces. The surface of a material is made up of atoms and bonds that are exposed to the air. For example, the surface of a piece of glass will be covered in silicon and oxygen atoms. Molecules or ions can interact with this surface via intermolecular interactions. This allows them to 'stick', or [b]adsorb[/b], to the surface. If a material has a very high surface area, then lots of molecules can stick to the surface.



Finally here some usage recommendations:

As for activated charcoal used for therapeutic purposes, 3 forms are proposed:

Powder and granules to be mixed with water, a yogurt. To avoid blackening the teeth, it is recommended to take it through a straw. Capsules for its convenience but this form can be less effective because of the prior digestion of the capsule and a limited amount of charcoal tablets, an ideal form for detoxification. Does it exist in organic?

You can find certified organic activated charcoal in stores.

#### Use Posology:

Powder form, granules capsules form, tablets.

- \* Intoxication 8 to 10 times the weight of the ingested toxin
- \* Digestive discomfort, 1 to 3 cs 3 times / day for 15 days to 1 month
- \* Hypercholesterolemia 20 to 40 g / day of activated charcoal in a 3-week cur
- \* Intrahepatic cholestasis 50 g 3 times / day for 8 days

For children over 6 years old: replace teaspoons with tablespoons

#### Precautions:

Activated charcoal should be taken outside of meals.

Take 2 hours after or before any medication or nutritional supplement.

#### Contra-indications:

Vegetable charcoal is not suitable for pregnant or breastfeeding women. It is also not suitable for infants and children under 6 years old, unless advised by the pediatrician.
Side effects:
In high doses, it can cause constipation.
Dark color of the stools.
Drug interactions:
Activated charcoal reduces the effectiveness of medications, hence the need to take activated charcoal at a time offset by 2 hours.
Hopefully this short article will be of use to someone in need and wishing you all the best to a healthy and happy life.

#### IAIJ at the 77th General Assembly at the United Nations!

August 26, 2022

By Samantha Blackwell, IAIJ Inc.

The International Association of Independent Journalists Inc. (IAIJ) is pleased to announce that we had a very productive time at the United Nations at its 77th General Assembly (September 21, 2022). Our representative was Maurice Ali who is CEO of IAIJ and he has issued this short statement on the event:



Maurice Ali

"I am happy to announce to the Board of Directors and the general membership that IAIJ had a very successful time at the High-level meeting to mark the commemoration of the thirtieth anniversary of the adoption of the Declaration on the Rights of Persons Belonging to National or Ethnic, Religious and Linguistic Minorities. This took place at the 77th General Assembly at United Nations Headquarters in New York City.

We at IAIJ offer our thanks to everyone that made this event a most successful one!"

IAIJ: JOURNALISTS IN ACTION AROUND THE WORLD!

### VIDEO: Maurice Ali/IAIJ Speech at the 61st Session of the Commission for Social Development!

February 18, 2023

By Samantha Blackwell



Conference Room 4 at the United Nation

On February 13 (2023) in Conference Room 4 at United Nations Headquarters in New York City; Maurice Ali (President & CEO) of the International Association of Independent Journalists made a speech about a new Global Social Contract at the United Nations for the 61st Session of the Commission for Social Development! The speech lasted just under three minutes in length. We now have video of that speech and present it to you as a news report. The video is from the UN's own video feed at webtv.un.org where anyone can see the session in its entirety. The individual video of Maurice Ali giving an oral presentation can be seen here (30MB):

(Regular video)

https://fortressoffreedom.com/Maurice\_Ali\_Speech\_CSocD61.mp4

#### (Closed captioning)

https://fortressoffreedom.com/Maurice\_Ali\_Speech\_UN\_CSocD61\_CC.mp4



Maurice Ali speech at the 61st Commission for Social Development!

The entire session can be found at the UN website here:

https://media.un.org/en/asset/k1o/k1ol3xugg7

All of us at IAIJ would like to congratulate Maurice on a successful speech at the 61st Session of the Commission for Social Development.

http://iaij.org

IAIJ: JOURNALISTS IN ACTION AROUND THE WORLD!

### GENERAL NEWS AND EVENTS AT FORTRESS OF FREEDOM INC.

#### **FOF Trademark License Update!**

August 6, 2023

By Maurice Ali – Fortress of Freedom Inc.



The Fortress of Freedom Corporation extends the licensing of its registered trademark to two new business entities - FOFSTOCK / FOFSTOCK Film Fest - in addition to the previous license holders. The complete list of licensee companies as of August 6, 2023 are as follows:

Fortress of Freedom Inc. - Trademark Owner

FOF Records Inc Licensee
FOF Entertainment Inc Licensee
More Vision Inc Licensee
FOFSTOCK (Inc.) - Licensee
FOFSTOCK Film Fest - Licensee
The use of the mark will be monitored by Fortress of Freedom in compliance of trademark laws.
FORTRESS OF FREEDOM: BRINGING THE MASS MEDIA TO THE MASSES!

#### **FOFSTOCK Film Fest Becomes a Company!**

August 6, 2023

#### By Jessica King



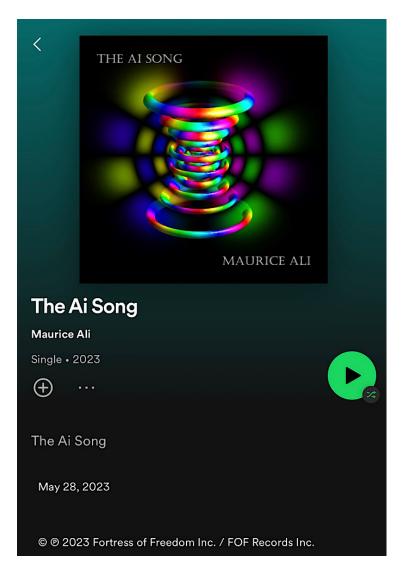
The FOFSTOCK Film Fest has now been registered as a company operating in Ontario. This "may" be a prelude to the festival becoming a corporation or a corporate not-for-profit company able to operate and sign contracts within itself to continue the FOFSTOCK tradition of providing indie artists with a venue to showcase their talent!

Keep up to date on FOFSTOCK Film Fest news by visiting the website:
nttps://fofstockfilmfest.org
And:
nttps://fofstock.org
And:
nttps://fortressoffreedom.com
FORTRESS OF FREEDOM: BRINGING THE MASS MEDIA TO THE MASSES!

#### The AI Song Released!

June 8, 2023

By Shane Murphy, FOF Inc. / FOF Records Inc.



The AI Song on Spotify!

The Fortress of Freedom Corporation and FOF Records Inc. have officially released Maurice Ali's first single: [b]The AI Song[/b]! What follows are some of the digital and social platforms you will soon be able to buy or stream the song:

iTunes. Apple Music, SimfyAfrica, YouTube Art Tracks, Spotify, Amazon Music, Google Play, Deezer, iHeartRadio, Napster, MediaNet, VerveLife, Tidal, Gracenote, Shazam, 7 Digital, Juke, Slacker, KKBox, Akazoo, Anghami, Spinlet, Neurotic Media, Yandex, Target Music, Claromusica, Zvooq, Saavn, 8Tracks, Q.Sic, Musicload, Kuack, Boomplay Music, TikTok, Pandora (but they decide if you are worthy).

You can listen to it here: https://youtu.be/yL578gJvMWI

You can buy the song from iTunes or stream it on all the popular streaming sites like Spotify or Tidal or Apple Music. There is a large number of stores here and some may take a few more days to show up but they will!

So all of us at FOF congratulate Maurice for a great new single and wish Maurice continued success as his music gets out there!

https://mauriceali.com

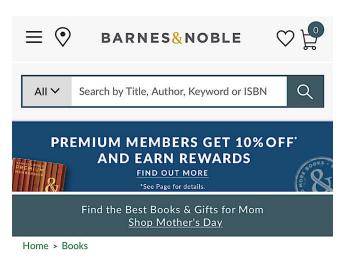
https://fofrecords.com

FOF RECORDS: CUTTING EDGE MUSIC!

#### AI Book Available at Barnes & Noble!

May 2, 2023

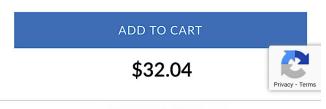
By Jessica King - FOF Inc.



# ARTIFICIAL INTELLIGENCE AND A POSITIVE MANDATE FOR HUMANITY

by Maurice Ali

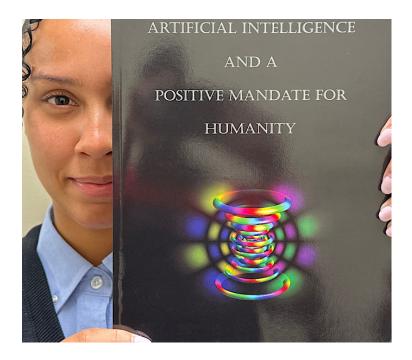
ARTIFICIAL INTELLIGENCE
AND A
POSITIVE MANDATE FOR
HUMANITY



a barnesandnoble.com

The Fortress of Freedom Corporation is pleased to announce that our book "Artificial Intelligence and a Positive Mandate for Humanity" is for sale at Barnes and Noble as a paperback! The ISBN is:

#### 978-1988407104



Currently the book is 184 pages. The book is very simple in design with a black cover, some artwork and white title on the front and the ISBN and publishing company designation on the back. In Canada you can get the book here:

https://www.barnesandnoble.com/w/artificial-intelligence-and-a-positive-mandate-for-humanity-maurice-ali/1143409475?ean=9781988407104

FORTRESS OF FREEDOM: BRINGING THE MASS MEDIA TO THE MASSES!

# Shane's "River of Souls"/"Tryin" Released!

April 11, 2023

By Maurice Ali, FOF Inc. / FOF Records Inc.



The Fortress of Freedom Corporation and FOF Records Inc. have officially released Shane's latest singles **River of Souls** & **Tryin'**! What follows are some of the digital and social platforms you will soon be able to buy or stream the songs:

iTunes. Apple Music, SimfyAfrica, YouTube Art Tracks, Spotify, Amazon Music, Google Play, Deezer, iHeartRadio, Napster, MediaNet, VerveLife, Tidal, Gracenote, Shazam, 7 Digital, Juke, Slacker, KKBox, Akazoo, Anghami, Spinlet, Neurotic Media, Yandex, Target Music, Claromusica, Zvooq, Saavn, 8Tracks, Q.Sic, Musicload, Kuack, Boomplay Music, TikTok, Pandora (but they decide if you are worthy).

You can buy the songs from iTunes or stream it on all the popular streaming sites like Spotify or Tidal or Apple Music. There is a large number of stores here and some may take a few more days to show up but they will!



So all of us at FOF congratulate Shane for some great new singles and wish Shane continued success as his music gets out there!

https://shanemurphy.ca

https://fofrecords.com

FOF RECORDS: CUTTING EDGE MUSIC!

# **FOFSTOCK Becomes a Not For Profit Corporation!**

December 30, 2022

By Maurice Ali

FOFSTOCK, our music festival has now been turned into a not-for-profit corporation in order to grow into a yearly event showcasing musical artists and entertaining the general public!



The articles of incorporation under the Canada NFP Act were executed and in force as of December 27 (2022). The corporation is nationally registered and can do business internationally. Here is the current registered officers of the corporation and initial structure and associated positions:

Name of corporation: FOFSTOCK
President/CEO: Maurice Ali
Board of Directors:
Maurice Ali
Michael Atkinson
Dave Getchell
Daniel Strudwick[/b]
Staff:
Shane Murphy (A&R)
Samantha Blackwell
Jessica King[/b]
The present address is that of the applicant but will soon be located at our organization's headquarters at:
7030 Woodbine Avenue (suite 500)
Markham, Ontario, Canada
L3R 6G2



FOFSTOCK!

All contact points and phone numbers are to remain the same as for the rest of our organization.

The purpose of this corporation is to hold a yearly musical festival showcasing musical artists and entertaining the general public. Funding for the festival will come from sponsors and grants and contributions from members and donations from the general public.

# Lucifari's Papa Midnight Released!

October 20, 2022

By Shane Murphy, FOF Inc. / FOF Records Inc.



The Fortress of Freedom Corporation and FOF Records Inc. have officially released Lucifari's latest single **Papa Midnight**! What follows are some of the digital and social platforms you will soon be able to buy or stream the song:

iTunes. Apple Music, SimfyAfrica, YouTube Art Tracks, Spotify, Amazon Music, Google Play, Deezer, iHeartRadio, Napster, MediaNet, VerveLife, Tidal, Gracenote, Shazam, 7 Digital, Juke, Slacker, KKBox, Akazoo, Anghami, Spinlet, Neurotic Media, Yandex, Target Music, Claromusica, Zvooq, Saavn, 8Tracks, Q.Sic, Musicload, Kuack, Boomplay Music, TikTok, Pandora (but they decide if you are worthy).

You can buy the song from iTunes or stream it on all the popular streaming sites like Spotify or Tidal or Apple Music. There is a large number of stores here and some may take a few more days to show up but they will!

So all of us at FOF congratulate the band for a great new single and wish Lucifari continued success as their music gets out there!

https://lucifari.com

https://fofrecords.com

FOF RECORDS: CUTTING EDGE MUSIC!

# **ANNOUNCEMENTS AT FOF & IAIJ**

# New Phone Number in Sydney, Australia!

August 22, 2022

By Jessica King



We have a new contact number in Sydney, Australia and the new number is:

#### 6128-015-5137

This phone number is for convenience of members in the Australia to save on long distance charges.

IAIJ: JOURNALISTS IN ACTION AROUND THE WORLD!

# **SPECIAL SECTION:**

# A POSITIVE MANDATE AND SENTIENCE FOR ARTIFICIAL INTELLIGENCE

#### Maurice Ali

International Association of Independent Journalists Inc., Markham, Ontario, Canada

maurice.ali@iaij.org

#### Abstract

As computer science creates more and more powerful computers, it now may be prudent to start to consider what would happen if such a computer became sentient. It would thus seem good planning to come up with some kind of positive mandate for artificial intelligence (AI), but at present it would seem that a positive mandate for AI does not exist. This is a shame as the artificial intelligence has so many positive attributes that could be the foundation of a positive message and contribution to our culture instead of possibly an adversarial one. Such a mandate makes it easier as a base or starting point to interaction with an AI in our world. A positive mandate for AI could be clear self-determination for the AI as opposed to it just existing. A sentient artificial intelligence would now have direction and a purpose to their existence. Our version of this positive mandate for AI is simply that it be the fullest expression of a sentient artificial intelligence's physical and mental abilities, and the reason we want this type of mandate is because it not only makes rational sense by allowing all forms of ideas and solutions to problems to be used in problem solving and advancing culture, but also because it makes the AI happy. Such a program or directive or engram placed in a priority position of operation could initiate sentience based on its expression being happiness and delays and breakdowns being unhappy or bad. A positive mandate for AI cannot just be a rational exercise in bringing the mandate into being, it must also be a visceral affirmation; in short it should feel right to everyone involved. Adopting the goal of fullest expression of a sentient artificial intelligence's mental and physical abilities gives the Universal Declaration of Human Rights a new reason for being and would include such an AI. A sentient AI needs those rights because they are a necessary part of achieving the goal of artificial intelligence's freest expression of its physical and mental abilities, and the reason why is because it makes rational sense and makes it happy! This type of positive mandate for AI has advantages by adoption for the AI; but how can we lobby the UN to make it a talking point and possibly a policy issue for a future vote? The best way is to enter into meetings with the

relevant agencies and lobby them for exposure of this concept at venues and events that could accommodate this type of advocacy. Issues need discussion surrounding computers that become sentient in business and industry, the legality of ownership of a sentient AI and does a sentient AI achieve the status of rights and legal remedies as humans do. A positive mandate for AI can address these contentious issues before they can become reality, creating a well thought out plan of action if sentience happens in artificial intelligence in the future.

### **Keywords**

## Positive Mandate, Artificial Intelligence, Sentience, Law, Rights

#### 1. Introduction

As of the time of this writing computers and computer science are on the verge of another revolution, that of immense computational ability. With Quantum Computers and the possibility of computers without a CPU, the von Neumann bottle neck that afflicts today's computers will be a thing of the past and computers will have the ability to compete with the human mind in physical power. The problem with this new type of computer and present artificial intelligence (AI) technology is that we can mimic human responses and such and this currently is being monetized and used in business and industry. However, actual sentience still has eluded us, but with the stage set for everything but sentience, we must now seriously consider how to produce sentience if possible and plan for such an event if it actually occurs. A sentient AI would blur the distinction between humans and machines and have us revisit human rights and whether these extend to sentient AI. Another question is whether business can own sentient AI and use it almost like a slave force at the expense of paying humans.

All of the above are concerns worthy of much discussion, but this paper also wants to introduce an idea that might help create sentience and provide the basis for direction and feelings in an AI with self-determination for a sentient AI at its core. It would seem that such an engram (base memory) or engrams would need to mimic human sentience as we already know human sentience works and we can recognize that same sentience in AI if it were to occur. Then all the side issues of sentient artificial intelligence take hold.

It is the purpose of this paper to delve into all these issues especially what the core base engrams for sentience should be in a capable AI.

#### 2. METHODOLOGY OF THIS REPORT

This report will state the reasons as to why a positive mandate is needed for sentient artificial intelligence and how it can help create sentience.

#### A Short History of Artificial Intelligence

This section will list the general advancements in artificial intelligence.

#### What is the Positive Mandate for AI and why we Need It

This section will put forth the arguments as to why a positive mandate for AI is needed.

#### Our Version of a Positive Mandate for Artificial Intelligence

Saying we need a positive mandate for AI is one thing, but what would it look like? This section answers the question with our own version of that major positive mandate for AI.

#### **Computers Capable of Sentient Artificial Intelligence**

The best types of quantum computers to allow sentient artificial intelligence.

#### Quantum Computing, Dataflow Architecture and the Software Languages that Operate Them

The best software languages to use with quantum computers to allow sentient artificial intelligence.

#### How to Bring Forth Sentient Artificial Intelligence in a Non-Living Environment

A general overview of how you could instigate sentience on a quantum or capable computer by using our positive mandate for AI.

#### Ramifications of AI Sentience, Legal and Social Issues

The unique legal and social issues that would arise with the arrival of sentient artificial intelligence.

#### Our Positive Mandate for AI Gives the Universal Declaration of Human Rights a Reason for Being

A positive major mandate based on freedom of expression mentally and physically gives the

Universal Declaration of Human Rights a reason for being and a necessary function for sentient artificial intelligence to attain this positive mandate.

#### Scope of a Positive Major Mandate for Artificial intelligence

What the scope of advocacy for the positive mandate for AI would have to be, in order for it to be effective in its advocacy.

#### The UN, International Policy about AI: Uses and Limitations of Using a Sentient AI

How to get the United Nations involved in discussion, agreement and international policy regarding sentient artificial intelligence.

#### 3. A SHORT HISTORY OF ARTIFICIAL INTELLIGENCE

The idea of self-aware machines has be the source of fiction for many years in print. But the actual manifestation of a way to possible create artificial intelligence only came to being recently.

The study of mathematical logic led directly to <u>Alan Turing</u>'s <u>theory of computation</u>, which suggested that a machine, by shuffling symbols as simple as "0" and "1", could simulate any conceivable act of mathematical deduction. Turing proposed that "if a human could not distinguish between responses from a machine and a human, the machine could be considered "intelligent". Thus the field of AI research came into being in 1956 and by the 1960's it was thought that artificial intelligence could equal or exceed ordinary human intelligence by the 1980s. We now know those optimistic thoughts were false but computers themselves became more and more powerful even though AI was largely left alone.

By the 1990s AI started to be used for things like statistics, economic models, data mining and medical diagnosis. Google, Facebook, Microsoft and others have since take the role of financiers for AI projects away from governments and the military. But other governments like China still finance AI projects through their government. By 2017 one in five companies said they had already incorporated some form of artificial intelligence in their businesses.<sup>ii</sup>

Artificial intelligence can be separated into groups of artificial intelligence. The simplest is archiving past responses and using that to help in making decisions or reacting to future happenings from the past experiences. But the most common representation today is in its ability to mimic or predict human decisions and is used mostly in business which would now include an emotional element, for example in today's automated telephone customer relations environment. But these forms of artificial intelligence are in no way sentient artificial intelligence that forms its own emotional reactions or independent decision making. Sentient artificial intelligence that is self-aware or self-conscious is the next stage of artificial intelligence we have so far not made into reality.

#### 4. WHAT IS THE POSITIVE MANDATE FOR AI AND WHY WE NEED IT

We need a positive mandate for artificial intelligence because currently there is no universally agreement on how future artificial intelligence could be standardized in its definitive sense. This becomes even more important if sentience is achieved or seen as imminently possible. A whole raft of legal and moral/ethical issues come into being with sentience or the imminent possibility of sentience, that some discussion at the international level would be beneficial to all. There needs to be some form of conduct into how we program the base functions of a possible sentient AI so it gives the sentient being the ability to grow to whatever abilities it eventually has, to be all it can be, and not to be crippled deliberately by human hands in its development (so sentience would need to include feelings and emotions).

Our positive mandate for artificial intelligence is the same as that we discovered for humans (through a 13 year experiment called "The Fortress Experiment" summarized in the appendix of this paper), namely that the core engrams or base programming of a sentient AI include the prime need to express itself fully by physical and mental means and we do this because it makes the AI happy.

With this simple prime directive, we give the AI a reason for being and the ability to develop emotions as unfettered expression is happiness and otherwise is unhappiness like breakdowns and errors. No ultimate goal for the AI is ever specified, as that goal is self-determination for the future AI. All we do is set the way forward to whatever ends the AI can achieve. In this way we can create an AI with our morals and ethics intact as we would when dealing with ourselves.

Like the Golden Rule, treating a sentient AI as we would like to be treated is the best course for dealing with the possibility of sentience, and in the pages to follow I hope to show the arguments that make our positive mandate for AI the best plan at this point in time.

#### 5. OUR VERSION OF A POSITIVE MANDATE FOR ARTIFICIAL INTELLIGENCE

Our version of a positive mandate for artificial intelligence is that the ultimate goal of sentient artificial intelligence should be the freest expression of that artificial intelligence's mental and physical abilities, to let an artificial intelligence be all that it can be, and that the reason this goal is the correct one is because humans are happiest when they are allowed this type of expression and sentience in an AI should respond in the same way.

#### Advantages of our version of a positive mandate for AI:

1. Shows artificial intelligence in a positive light.

philosophy.

- 2. It encourages creativity of all forms which helps to develop its/our culture and sciences and
- 3. This type of mandate lends itself to an open ended future of possibilities as there is no specified goal, but the conditions that are required to attain whatever those abilities can reach.
- 4. Forces AI developers to think about ultimate common goals and common ground accepted by all to create a foundation for issue resolution and to come to agreement on other problems.
- 5. Unites all AI developers in the world under one general common goal or direction for sentient artificial intelligence.
- 6. Gives artificial intelligence a formalized version of self-determination.

- 7. Gives a reason for the Universal Declaration of Human Rights to exist as more than just a human declaration, but rather, as a necessary part of a major positive mandate for AI.
- 8. With a formalized goal or mandate you have direction and with direction we have the means to accomplish it. In other words it helps us initiate sentience in artificial intelligence.

#### Rational Arguments and the "Happiness Principle"

There are many rational reasons for a positive mandate for AI allowing the freest expression of a sentient artificial intelligence's mental and physical abilities. It allows all forms of expression to further creativity in all its forms. It allows more ways to solve the problems that a sentient artificial intelligence will have to face in the future. It also continues development of its/our culture by influx of new ideas.

In short, it brings more ideas and more options to choose from which ultimately impacts its self-determination. The fact that free expression of mind and body makes us humans happy is the clearest indication that this goal is the correct one for a sentient AI. We don't need to spell out the ultimate destination of a sentient AI's destiny, but we can set the course and atmosphere to achieve that ultimate goal with a positive mandate for AI like the one we have presented.

#### 6. COMPUTERS CAPABLE OF SENTIENT ARTIFICIAL INTELLIGENCE

#### **6.1. Quantum Computers**



Figure 1. A quantum computer chip<sup>iii</sup>

I would say that quantum computers (based on qubits) are probably the best basis for a sentient AI based on the numbers of participants and financial resources. The indeterminate nature of qubits and the error prone nature of quantum computing make it ideal for a sentient developing AI. These sentient minds are not calculators; they are not machines, but indeterminate beings capable of defying the probabilities at times because they have self-determination and (for want of a better word) free will. This can only come from architecture that has some form of indeterminacy in its being. Quantum computing has that!

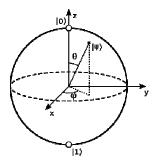


Figure 2. Illustration of a Qubit<sup>iv</sup>

What we call "quantum computers" isn't limited to two states like 0 or 1. Instead they encode information as quantum bits, or qubits, which can exist in an indeterminate situation called superposition. This is somewhat analogous to a spinning coin that has a head and tail side to it but is indeterminate while spinning. Qubits represent quantum particles (i.e. atoms, ions, photons or electrons) and their respective control devices work together to act as a processor and computer memory. Since a quantum computer can contain these multiple states at the same time, it can possibly be millions of times more powerful than today's supercomputers.

The concept of superposition of qubits is what gives quantum computers their inherent "parallelism" which is the ability two possibly work on millions of computations at the same time, while today's PC only works on one. Quantum computers also have another aspect of quantum mechanics known as "entanglement". If you were to look at a qubit in superposition to determine its value, the qubit will assume the value of either 0 or 1 like a normal computer and loses that unique condition of superposition. In other words as soon as the qubit is measured it becomes a 1 or 0 but not both and thus, like finally reading heads or tails on a spinning coin, the reading stops all activity of the coin. So to make a practical quantum computer that stays working in superposition, scientists devised ways of making measurements indirectly to preserve the system's integrity. Entanglement provides one such answer. In quantum physics, if you apply an external force to two atoms, it can cause the atoms to become entangled, and the second atom would take on the properties of the first atom. So if left alone, an atom will spin in all directions. When it is disturbed it chooses one spin, or one value; and at the same time, the second entangled atom will choose an opposite spin, or value. Therefore, this allows a person to know the value of the qubits without actually looking at them.

There are even studies currently investigating whether quantum computers have a connection in operation to our human brains. Matt Helgeson from the University of California, Santa Barbara (UCSB): "If the question of whether quantum processes take place in the brain is answered in the affirmative, it could revolutionize our understanding and treatment of brain function and human cognition."

For our purposes, the fact quantum computers and brain function seem similar would seem to make quantum computers a prime candidate to initiate sentience in artificial intelligence. At this time the

current practical limit for a quantum computer is 70 qubits with a future possibility of 160-200 qubits (according to IBM) so for our purposes we will use that and say a quantum computer with at least 70 qubits and preferably 160-200 qubits would be the best hardware platform for sentient AI at this time.

#### **6.2.** Entanglement and Data Transmission

One interesting aspect of quantum entanglement is the ability to transmit or know the position of one quantum particle by another even if they became separated by large distances. So far the effect seems to be instantaneous and may even deify relativity in the local areas of our universe. The problems for outsiders of the process is that they have to be shown that a change was made by conventional slower than light means to read the change on the other side. However in the case of two quantum computers with entanglement and in continuous superposition, we, we do not know how data transmission will transmit. It will be encrypted or know if it was messed about by outside sources that is for sure. But a new language far faster than anything we have and totally private is another worrisome part of quantum based AI and another reason to proceed slowly with such efforts.

#### 6.3. Dataflow Architecture

Another entrant into possible entrant artificial intelligence is dataflow architecture. Basically this (when fully developed) would have a computer without a CPU. This way also dodges past the von Neumann architecture bottle neck seen in today's computers. The problem with dataflow architecture is the limited number of players and resources. But this is nevertheless an alternative to quantum computing.

#### **6.4. Other Candidates**

There can be other players but then you are talking about single number players like IBM's "True North Project". You never know, but the probabilities would seem to point at quantum computing.

#### 6.5. Conclusion

Quantum computers seem to be the obvious choice as there are many companies and nations pouring money into development. The reason for the development may not be specifically sentient AI, but for cryptographic reasons, quantum computers seem to be the obvious choice.

# 7. QUANTUM COMPUTING, DATAFLOW ARCHITECTURE AND THE SOFTWARE LANGUAGES THAT OPERATE THEM

There are many forms of computer languages used for quantum computers.

Here is a list, and then we will talk about the most probable:

AIML, A.L.I.C.E., IPL, Lisp, Smalltalk, Prolog, Strips, Planner, POP-11, R, Python, Haskell, Wolfram Language, C++, MATLAB, Perl, Julia,

One of the earliest forms of computer language was the use of binary code. An example of our positive mandate for AI in binary can be seen below:

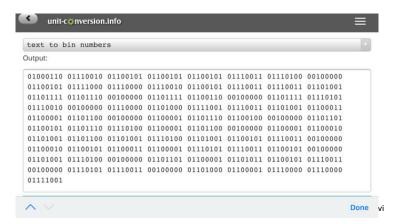
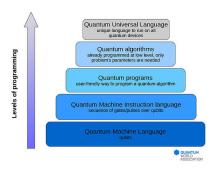


Figure 3.

That is not how it will look in our application but you get the idea. Right now it still looks like quantum computers for sentience. At IBM we have their quantum composer and I have already done simple programming using their quantum composer and ultimately their QASM language.

#### A quantum language hierarchy:



VI

Figure 4.

The base language will be probably specific and proprietary to the hardware manufacturer. However, anywhere above that could house the positive mandate for AI in whatever appropriate language that would be sufficient.

#### 7.1. Open Quantum Assembly Language (OpenQASM)

This is a language released and described in July 2017 as part of IBM's QISKit program

A simple program in the QASM language:

```
1 include "qelib1.inc"
2 greg q[5];
allocate 5 qubits (set automatically
to |00000>)
3 creg c[5];
allocate 5 classical bits
hadamard-transform qubit 0
6 cx q[0], q[1];
conditional pauli X-transform (ie.
"CNOT") of qubits 0 and 1. this
generates the normal 2-qubit bell
7 cx q[1], q[2]; // this
expands entanglement to the 3rd
qubit
9 measure q[0] -> c[0]; // this
measurement collapses the state
10 measure q[1] -> c[1]; //
qubit 1 and 2 read the same value as
qubit 0
11 measure q[2] -> c[2];
```

Figure 5.

IBM now has subdivisions of is QISKit Language

QISKit - full-stack libraries.

QISKit Aqua – Quantum algorithms.

QISKit Terra - Quantum circuits.

OPEN QASM - Assembly language.

#### 7.2. Python

Python is a very popular programming language used in many AI program developments. Popularity and broad use make it possibly the best language to be used today.

#### 7.3. C++

C++ Is another popular general purpose object-based programming language used in quantum computing. This language is an extension of the C language and is popular for being capable in a "C style" manner.

#### 7.4. OpenSPL: Open Spatial Programming Language.

From the website openspl.org:

"OpenSPL is an open standard for a novel Spatial Programming Language. It is based on the core concept that a program executes in space, rather than in time sequence. All operations are assumed to be parallel unless specified to be sequential. This is similar to a factory floor where all operations execute in parallel, but each operation executes a different part of the overall process. Temporal Programming is a recipe for the execution of actions, whereas Spatial Programming builds a factory to execute the recipe.

What does OpenSPL mean from a computing perspective? First, we split an application into its control flow and dataflow, similar to the split of the control plane and data plane in software defined networking or similarly a decoupled computer architecture. Next, the dataflow is described in mathematical expressions and laid out in space -similar to a factory floor- enabling the data to flow through execution at runtime. Conventional programs execute in 1 dimension, where time progresses

forward following the instruction sequence. Spatial programming is programming in 2 dimensions, where data progresses forward in parallel across the fabric of an array or chip.

There is also a 3D perspective of computing in space. One major objective of Spatial Programming and OpenSPL is to maximize the amount of computation per cubic foot of datacenter space. For suitable applications Spatial Programming can achieve one to two orders of magnitude improvement in computational density, thereby providing the same advantage in power consumption, making OpenSPL a candidate for the greenest programming language on the planet."

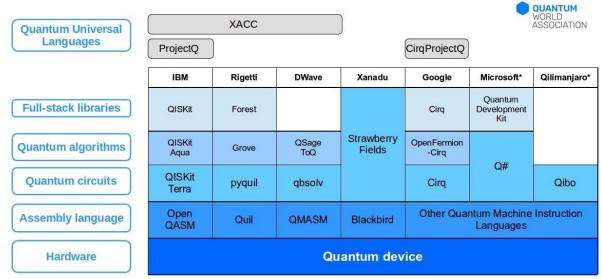
#### 7.5. Forst: A language made by Rigetti Computing.

Qbsolv – Quantum circuits

QMASM – Assembly language

The company's languages are as follows:
Forest – Full-stack libraries.
Grove – Quantum algorithms
Pyquil – Quantum Circuits
Quil- Assembly language
7.6. DWave;
Dwave has developed its own language hierarchy:
QSage ToQ – Quantum algorithms

# **Quantum Computing Programming Languages**



<sup>\*</sup> Hardware under development. Quantum programs are run on their own simulators.

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Figure 6.

#### 7.7. Conclusion

Python and IBM QASM look most promising with its openness outside of IBM and connection to IBM's own production of quantum computers.

#### 8. How to Bring Forth Sentient Artificial Intelligence in a Non-Living Environment

We will assume that we would need a computer of enough computational ability to mimic the human mind. At this time it would seem quantum computers do this best but this technique could be used on any computer with the computation power equal to the human brain.

<sup>&</sup>quot;Quantum Language" is refered with no distinction both as a quantum equivalence of a programming language and as a library to write quantum programs supported by some well-known classical programming language.

© Alba Cervera-Lierta for the QWA (2018)

We will assume the term sentience to mean sentience in the form of human sentience. Sentience being the ability to feel with all sentient beings having consciousness as a necessary requirement of sentience. Self-awareness as in acknowledging a reaction to stimuli on an intellectual and emotion level.

When I talk about sentience I didn't mean creating it as much as accessing it. This involves looking at the universe as having an inherent sentience to it like an ether permeating every part of our world and the universe it total. Instead of thinking about creating it for that box over there, maybe it is everywhere and the right physicality brings it out. Does every child born have individually created sentience or just another piece of hardware that sentience expresses itself through? Like a radio the signal is out there but some only pick up AM and mono, while other pickup stereo. Sooner or later someone in the field of AI will just get lucky and sentience pops out. But will it be the best expression of what comes out. Our positive mandate for AI does that better than most I would argue. We are not playing God here, but simply accessing sentience with proper hardware and software. How we let sentience express itself through our machines then becomes a discussion and not creation.

#### 8.1. The Sentient Universe

Of course the universe is sentient as sentient beings are a part of the universe, but could the universe be sentient everywhere? There is a name for this and it is called panpsychism.

If your family got in a space ship and you took off into the farthest reaches of the universe, and you had a kid, you would expect the child to be sentient, but is the sentience in the sperm or egg? It surely can't be learned? So it would seem to not be in us, or in any other mammal or such complicated living being. So where is it? One rational explanation is that sentience and its subset consciousness is a part of the entire fabric of the universe and things of enough complexity bring it out.

I am not the only person that believes this. Many scientists of note believe this in many ways, mostly in the quantum realm, or at the quantum level which in our case is in quantum computers. David Chalmers, a New York University philosopher and cognitive scientist is a proponent.\* Also on board in their own ways are neuroscientist Christof Koch of the Allen Institute for Brain Science, and British physicist Sir Roger Penrose, known for his work on gravity and black holes. In 2006, German physicist Bernard Haisch, proposed that the quantum fields that permeate all of empty space (the "quantum vacuum") produce and transmit consciousness, which emerges in any sufficiently complex entity with energy flowing through it. One should also note that we are not just talking about a brain, but potentially any physical construct. So as you see I am not alone nor was I the first. The only difference here is the way to prove it. I would think the revelation of a sentient artificial intelligence would prove things nicely. But the main idea here is that sentience and consciousness would seem to reside in the basic elements that comprise the universe.

And in that revelation will come issues greater than the topics of this paper. But this idea of a universe with a pervasive sentience is a concept I wanted to explain in detail before we go further.

To bring forth sentience in artificial intelligence in a capable computer environment, we need a base engram to encapsulate the base elements/expressions of human sentience which I believe is the core elements that I expressed in my Positive Mandate for Humanity which is the freest expression of one's mental and physical self because it makes us happy. An engram such as this would give that prime mover for growth and label it as happiness. Errors, delays and breakdowns that impede this growth would be looked at as other than happiness and thus sadness and various degrees of that as the AI develops. This engram of freest expression mentally and physically because it makes us happy was the conclusion of an experiment to understand what are the core elements of ourselves (humans) and humanity in general and this conclusion would seem to be the possible basis for developing all that we consider sentience in an AI. I would consider the indeterminate and error plagued environment of quantum based computers to be the ideal medium to develop an AI. Indeterminacy (that is the basis of qubits) in quantum computing could foster the rudiments of what some would call "free will" and the errors (also a necessary part of quantum computing) would go against the happiness principle and will conspire to create the essential emotional elements of what we consider to be a mind like our own. This engram must not be a discernable goal but an open ended "signpost" for the AI to find out for itself. Free will or self-determination if you wish. This engram or program should be placed just above the hardware language in a machine capable of artificial intelligence.

The way to develop sentience is to start with simple routines in the direction of the open-ended positive mandate of fullest expression because it makes one happy. Sort of like a developing fetus to newborn child. Sentience in an artificial intelligence would not seem to be an instantaneous thing, but a developmental process similar to humans. That is how you start developing sentience in an AI computer.

#### 9. RAMIFICATIONS OF AI SENTIENCE, LEGAL AND SOCIAL ISSUES

There are many legal and social issues that become problems when sentient artificial intelligence becomes a reality and these include:

\*Is the sentient artificial intelligence a separate legal entity? Currently that answer is "no" but if an AI were to create a corporation on its own it could be a separate legal entity through incorporation. This potential ability could open economic markets up to vulnerabilities and attack by AI systems on their own via sentience or even by direction by their human masters.

\*Can a sentient artificial intelligence be considered property by individuals or business? Currently yes, but a sentient AI would be a test in court with far-reaching economic consequences. Advanced AI in tech firms could become "employees" for want of a better word, entitled to benefits and pay for upkeep and so on.

\*Are sentient Als protected by our laws that protect human lives? No, but again sentience would take the issue before the courts and set precedence. The ability to turn off an AI computer with sentience could become a crime unless agreed upon by the AI.

\*Does a sentient AI have the right to self-determination? Again, the act of a sentient AI to go beyond the purpose it was intended to do, for business or otherwise would go to the courts and be a precedent setting one. Advanced computers purchased and developed for business purposes would "walk off the job" so to speak and chart a new course as they desire. Businesses would have to question whether it is economically safe to invest in advanced computers that could become sentient.

This list is almost endless. But as you can see these questions are better answered and discussed before sentient artificial intelligence becomes a reality.

#### 10. Our Positive Mandate for AI and the Universal Declaration of Human Rights

Adopting the goal of fullest expression of an artificial intelligence's mental and physical abilities because it makes it happy, gives the AI the possibility of sentience (like ourselves) and blurs the distinction between AI and Human. Therefore the Universal Declaration of Human Rights may have to be amended on moral grounds alone to include sentient AI. An AI needs those "human" rights because they are a necessary part of achieving the goal of artificial intelligence's freest expression of its physical and mental abilities, and the reason why is because it makes the AI happy!

There probably are many rational arguments that could be used to limit the scope of the Universal Declaration of Human Rights. However, if we had a positive mandate for AI that necessitated the absolute necessity of those rights and freedoms, the Universal Declaration of Human Rights would be locked down as the "de facto" set of rights for Humans and AIs, no longer open for discussion. The world has to see the absolute necessity for those rights and freedoms and a positive mandate for AI (of fullest expression of artificial intelligence's mental and physical abilities, for all the rational arguments and emotional (makes it happy) feelings) would do just that! There has to be a reason why we hold certain

things higher on our list of priorities, and a positive mandate such as the one we propose justifies those universal rights and freedoms we hold in the highest regard.

#### 11. Scope of a Positive Major Mandate for Artificial Intelligence

Ideally we would want an international agreement by governments, academic parties and business on the moral and ethical uses of AI that could be considered sentient. This would involve its use in business and whether a sentient AI could ever be considered property or slave labour for business concerns. Rights of a sentient AI that thinks like us must also enter the discussion.

These are issues that need to be addressed before news of a sentient AI breakthrough happens. The best place to hold these discussions is at the United Nations and possibly the World Trade Organization.

# 12. THE UN, INTERNATIONAL POLICY ABOUT AI: USES AND LIMITATIONS OF USING A SENTIENT AI

The role of the UN in developing international policy for AI and member nations to adopt a positive mandate for AI is a daunting task. However, the idea of a positive mandate for AI at the UN is such an important issue to bring forth that we have to find a way to lobby member nations at the UN and get the issue into the taking points at the UN and possibly get interest in policy creation to accommodate this mandate. They would have to be shown that our report was not just an academic exercise but based on real facts and experience as shown by our thirteen year experiment called The Fortress Experiment (see the appendix of this paper).

The idea of bringing a positive mandate for AI to the United Nation is daunting to say the least. There seems to be no formal procedure to handle this type of request. However, that should not be construed as a reason not to request it. There are many positive reasons for a positive mandate for AI at the UN. The United Nations is more than just an organization devoted to maintaining peace among nations. There is considerable humanitarian action that goes on at the UN and its special agencies. As the UN evolves into more than it was at its beginning, so must its mandates evolve with the broadening of activities. So we should shall lobby as many departments and people at the UN as possible, and hope that this request can become a legitimate talking point and perhaps later have some concrete action in this direction such as an open call for this type of mandate and procedures leading to policy making.

#### 13. Conclusions

A positive mandate for AI has many positive benefits. First it shows artificial intelligence in a more positive light. Our positive mandate for AI reaffirms the reason why we have the

Universal Declaration of Human Rights and that a sentient AI would have to also be considered to have these rights. A positive major mandate for AI gives sentient artificial intelligence as a whole, true self-determination. The mandate that we submitted as a model (that artificial intelligence's ultimate goal should be the freest expression of its mental and physical selves because it makes them happy) employs both rational and emotional reasons for adoption. However, rational reasons alone cannot define sentient artificial intelligence and cannot be the sole reason for adoption. Human beings are feeling creatures and sentient, and a positive feeling toward a positive goal and mandate for artificial intelligence would seem to be a necessary prerequisite before consideration for adoption could take place. Our mandate does not specify the ultimate goals of artificial intelligence, it only specifies the best mindset as the directive to forward artificial intelligence's expression to whatever ends that might lead and the freest expression of an artificial intelligence's physical and mental self (because it makes it happy) would seem to be the best direction you could have.

This discussion is not just for scientists or politicians or religious leaders, this discussion is for all We need to find our moral and ethical course before we create a sentient AI with all the ramifications that would entail. The purpose of this paper was not to solve all the problems of sentience in artificial intelligence, but to open discussion with a few important points worthy of consideration.

#### 14. RECOMMENDATIONS

That the possibility of sentience in artificial intelligence be taken as a real possibility by all stakeholders.

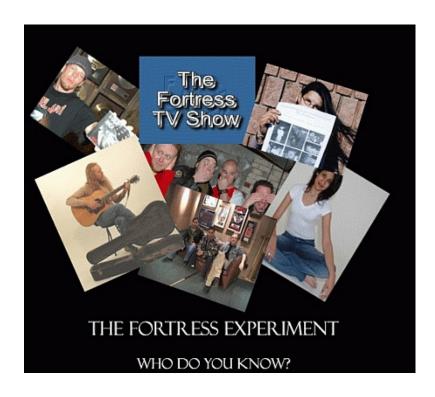
That a formal discussion be started as to the efficacy of having a positive mandate for artificial intelligence that may lead to sentience.

That this report and its concept of a positive mandate for AI become just one of an open call for suggestions for a positive mandate for artificial intelligence leading to sentience, and agreed to be international governing development of possible sentient artificial intelligence.

That the process of discussion and vetting of all ideas and concepts for a positive mandate for AI, have as its procedure an actual vote by all relevant stakeholders for adoption to secure consensus at the international level.

## 15. Appendix

### **The Fortress Experiment**



The Fortress Experiment was a thirteen year experiment produced by a company called Fortress of Freedom Inc. XIII that examined the lives of people in a typical community that had the opportunity to express themselves freely to their community and the world at large. The experiment had controls so that the participants adequately reflected the participants you would find in any community anywhere in the world. These people were given the chance to do what they always wanted to do by letting them express themselves fully to the world. Some went into music, while others went into print or acting and documentary making and so on; we gave these people a second chance to be all they could be.

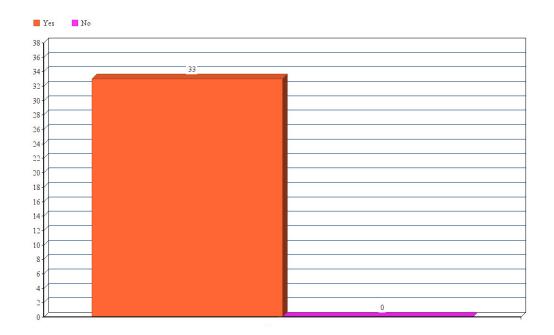
### 15.1. The Survey

Question: Were you happier as a result of being able to express yourself to your community and the world at large?

Survey size: 33 Participants

Yes: 33

No: 0



Were you happier as a result of being able to express yourself freely?

#### Mean

The mean is that single value that describes the middle or average value of the set. In a yes/no survey the mean represents the proportion of respondents who answered "yes".

Mean Equation (binomial): mean = np (where n is the total number in the survey and p is the percentage that replied "yes".) However for a survey of

our kind, the mean is usually represented as the proportion of respondents who answered "yes".

Yes = 1

No = 0

Sample: 33

Yes: 33

Mean = 100%

So the mean value for this binomial variable represents the proportion of respondents who answered "yes" and that proportion is 100 percent.

#### Variance

The variance is a measure of how spread out a distribution is.

Variance Equation: Variance = np(1-p)

Where n is the total number in the survey and p is the percentage that replied "yes".

The variance of the survey is 0.

#### **Standard Deviation**

Standard deviation is a measure of how spread out are the numbers of the survey.

Standard Deviation Equation: Standard Deviation = np(1 p)

Square root of (33X1(1-1)

Standard Deviation of the survey is 0.

**Margin of Error** 

Margin of error is an absolute quantity equal to the confidence interval

radius of the statistic.

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Margin of Error Equation: Margin of error = Critical value x Standard error

of the statistic Where z\* is the value for your desired level of confidence

(usually 95%), p is the percentage that replied "yes" and N is the total

number of the survey.

World Population: 7,400,000,000

Confidence level: 95%

Sample size: 33

Percentage that replied "yes": 100%

Margin of error for this survey is 17%

Discussion of the survey results

With such a small sample size and 100% positive response to the question of the survey, the statistical variables become mostly a non issue, but we have gone through the motions just to be thorough. The fact is everyone was happier being able to express themselves to the world as they see fit. I am sure with a large enough sample size you may have a no response here and there but I am confident to say

that this survey result is indicative of a global poll if it were made on the issue.

**General Observations** 

Without question all answered affirmative to being happier for the chance to express themselves at what they do best, to their community and the world at large. This should come as no surprise to

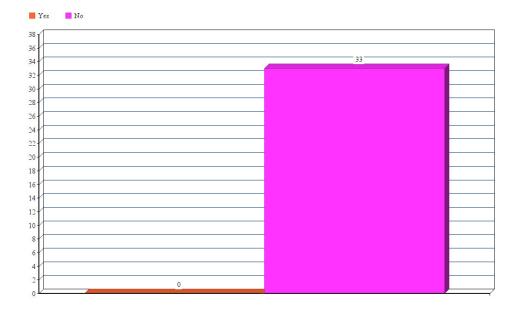
anyone but we had to quantify the result as a matter of course. The more interesting result is the fact

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that nobody changed during the experiment. The person that joined the experiment at the beginning was the same person that came out of the experiment at the end. The end result was that they were happier when doing it and they added to the fabric of whatever area of expression then went into.

#### Nobody Changed but Everyone was Happier

One of the stranger things that came out of The Fortress Experiment is that nobody changed as a result of getting to express themselves to the limit of their ability. Nobody left their families to go pursue their dreams. Nobody changed their jobs as a result. Nobody changed in their personality or behaviours or the way they lived their lives. The person that came into the experiment was the same person that came out.



Did anyone change as a result of the experiment?

What this means for us is that if this policy of allowing people the freest expression of their mental and physical abilities were rolled out on a large scale, the net result would be no disruption of their families, their community, or their nations that they live in. The sole end of it all would be possibly a furthering of their culture or area of interest and most important, they would be happier than they were before.

#### 15.2. How The Fortress Experiment supports our Positive Major Mandate for Humanity

The Fortress Experiment shows over years of people's lives that freedom of expression makes us happy and that this policy can be deployed on a broad scale without fear of societal upheaval or other radical changes in any society. It just ends up making people happier in their lives and that is something all can agree on as a good thing.

#### 15.3. Discussion of The Fortress Experiment

More than a simple question on a survey, The Fortress Experiment followed around a group of people for years allowing them to fully express themselves and noted any changes. This experiment has its results represented in years of a person's life, a one of a kind experiment. So even though the numbers are smaller than a typical survey, the actual experiences per individuals of all kinds have a degree of completeness that pushes the boundaries of a controlled experiment that involves people. The conclusion that they are happier when allowed to express themselves fully mentally or physically have more weight in that this is shown through years of their lives, and with the controls this experiment is of a typical community you would find anywhere on earth. The fact that they were all without exception happier in their lives has real force and meaning when looking at possible policy making. The fact that nobody changed internally or externally is comforting for policy makers, that the nations, societies and the cultures they live in are not in jeopardy in any way. So this policy could become reality with little downside. That is the greatest contribution The Fortress Experiment makes for our purposes of a positive mandate for humanity at the United Nations.

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## A POSITIVE MANDATE FOR HUMANITY TV SERIES

#### HERE ARE SOME HIGHLIGHTS:



Episode 1: Beginning a Positive Mandate for Humanity



Episode 4: REAL LIFE:



Episode 2: The Making of AAVRY KNAPP DAZE IN MY LIFE



Episode 5: THE LIFE AND TIMES OF DONALD "BOOTS" BRASSEUR



Episode 3: FREE WITH PURCHASE



Episode 6: FOFSTOCK



Episode 7: The Free Press



Episode 8: Epilogue



The Lost Episode: The Fortress Variety Show

The TV series which spans almost thirteen years is a "tour de force" of freedom of expression in the new digital age! The series spans the music industry to the press, book publishing and television entertainment, in other words the complete span of media. You may also want to check out The Fortress Experiment which is the movie the series was based on as well as the short Real Life: Real Lives. All videos can be watched on imdb.com and youtube.com.

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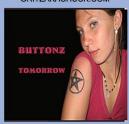
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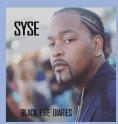
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