Neil Harbisson, born in 1982, is a Catalan contemporary artist, composer and cyborg activist best known for his ability to hear colors and to perceive colors outside the ability of human vision. Harbisson was born with achromatopsia, a condition that allowed him to see only in greyscale. In 2003, he took part in the development of the ‘Eyeborg,’ a cybernetic eye permanently attached to his head that allows him to hear the frequencies of colors through bone conduction (including infrareds and ultraviolets). Harbisson started to feel like a cyborg, a union between his organism and cybernetics, when he started to hear colors in his dreams. Since then, he has created sonochromatic art works and performances that explore the relationship between color and sound, and the relationship between bodies and cybernetics. In 2010, he co-founded the Cyborg Foundation with Moon Ribas, an international organization that aims to help people become cyborgs, defend cyborg rights and promote cyborgism as an artistic and social movement.

Cyborg is short for cybernetic organism, meaning part machine, part human. No one would fault a person for using eyeglasses to see better, a cane or prosthetic leg to walk, or, most recently, a cochlear implant to enable hearing. The swift evolution of new technologies may soon produce prostheses to enable the blind not only to see, but to see better than any human has seen before. In the new world of genomics and nanotechnology, we are on the cusp of merging human cellular structures with mechanized implants to correct many inherited and chronic medical diseases. We may be witnessing the accelerated evolution of a new human species. Leading biotechnology thinker Juan Enriquez reminds us, “the difference between humans and Neanderthals is .004 percent of gene code. That’s how big the difference is, one species to another.”

NEIL HARBISSON: COLORBLIND CYBORG
Nestled at the base of Federal Hill, American Visionary Art Museum is the perfect spot for small or large events.

Weddings, corporate events, bar/bat mitzvahs, holiday parties—you name it!
“ALL OF A SUDDEN, WE’VE LOST A LOT OF CONTROL . . . WE CAN’T TURN OFF OUR INTERNET; WE CAN’T TURN OFF OUR SMARTPHONES; WE CAN’T TURN OFF OUR COMPUTERS. YOU USED TO ASK A SMART PERSON A QUESTION. NOW WHO DO YOU ASK? IT STARTS WITH G-O, AND IT’S NOT GOD . . . ” —STEVE WOZNIAK, APPLE CO-FOUNDER

Welcome Earthlings, Techies & Luddites!

Our American Visionary Art Museum’s 19th original thematic exhibition is a playful and timely examination of the serious impact of technology on all our lives, as seen through the eyes of 40-plus visionary artists, cutting edge futurists, inventors, and human rights champions. In this show, we pose a question to Nobel Prize winners and schoolchildren alike: “Two billion personal computers later, post DNA-sequencing, are we on the road to being better, healthier, happier, less warlike human beings?”

Guided by Albert Einstein’s wise admonition, “If you can’t explain it to a six-year old, you don’t understand it yourself,” AVAM’s newest exhibition invites all to explore our most complex subject yet: the rapid and ever-increasing impact of artificial intelligence, big data, robotics, nanotechnology, genetics and 3D printing on nearly every aspect of our lives. We investigate technology’s impact on personal privacy and surveillance, employment and manufacturing, longevity and health, defense and warfare, farming and food, creative invention and entertainment. We present some very real, well-funded attempts afoot to transfer what makes YOU into an IT that doesn’t grow sick or old. This is high stakes, new territory never before negotiated by any prior civilization. We want everybody to be awake and present at the table as these great new powers—with their inherent potential for both blessing and peril—unfold and alter life on earth.

Kevin Kelly, co-founder of Wired magazine, defined the Singularity as the point at which “all the change in the last million years will be superseded by the change in the next five minutes.”

Curated by myself, a self-confessed luddite, this high-voltage exhibit stars the electric visual delights of some of this world’s most visionary artists and astute filmmakers. Among the featured work: Kenny Irwin’s ROBOTMAS, glowing inside a central box theater at the heart of this exhibition; a selection of Alex Grey’s Sacred Mirrors, which examine the nexus of soul and body; Adam Kurtzman’s Elsa, Bride of Frankenstein, representing humankind’s historic fascination with control over life and death; O.L. Samuels’ 7-foot-tall Godzilla—a creation first imagined in response to the devastating use of the A-Bomb on Hiroshima and Nagasaki; Rigo 23’s delicate drawings exploring the ethics of drone usage; Allen Christian’s life-sized Piano Family, a love song to String Theory; and Fred Carter’s massive wooden carvings, warning of destruction from shortsighted industrial manipulation of Nature. This show is informative, sometimes scary, asks big questions, and is made with love.

“MAN IS RATED THE HIGHEST ANIMAL, AT LEAST AMONG ALL ANIMALS THAT RETURNED THE QUESTIONNAIRE.” —ROBERT BRAUL

May we kindly harness all these immense new powers to greater good,

Rebecca Alban Hoffberger
AVAM Founder & Director
Celebrating in Thankfulness our American Visionary Art Museum’s 18 Years of Life
ALEX GREY, Gaia, 1989, oil on linen, collection of Bex Wilkinson. Photo Dan Meyers
Just as the existence of germs was once ridiculed by those in the medical establishment with insufficient technology to detect them, the existence of a soul and/or consciousness that precedes, animates and transcends bodily existence has been hotly debated since before the time of the ancient Greek philosophers. Whatever our doubts, it is not surprising that nearly all languages have a word for the Soul. Einstein put it this way: “The more I study physics, the more I am drawn to metaphysics.”

The popular childhood levitation game “Light As A Feather, Stiff As a Board,” (whose first mention dates back to the 1600s), and its multi-cultural variants, build a bridge of first-hand experiential understanding that there are indeed unforeseen forces at hand that seem to trump the everyday mechanics of our physical reality.

The spooky game is still practiced today at slumber parties and college dorms around the world. Those
SOUL AS CONSCIOUSNESS

lifting, who begin by experiencing the heavy physical weight of the body and then, after the short series of group incantations, experience the ease of the subject’s rise (even works with the heaviest of subjects), “Light As a Feather” becomes a powerful participatory rite few can easily forget.

Today, many labs around the world have taken up the charge to document such things as the existence of free will, remote viewing (when a person can send their consciousness a great distance from their body to accurately retrieve information) and what we mean by words like “you” and “me.” From the ancients who taught our inescapable, individualized part within a vast web of life to the kindred energetic web of consciousness expressed artfully within this series of Sacred Mirrors by Alex Grey, scientists and artists, philosophers and physicists are attempting to articulate the view that our bodies are exquisitely complex machines and our souls animating, hyper-conscious real forces.

"THE DAY SCIENCE BEGINS TO STUDY NON-PHYSICAL PHENOMENA, IT WILL MAKE MORE PROGRESS IN ONE DECADE THAN IN ALL THE PREVIOUS CENTURIES OF ITS EXISTENCE." —NIKOLA TESLA
FRED CARTER, Coal Miner (UMW), Late 1980s, wood bust, collection of Mary Carter Owens and Vel-Holly Fleming.

Cat Counts, 1980s, wood bust, collection of Mary Carter Owens and Vel-Holly Fleming.

Martin Luther King, Jr., 1983, wood bust, collection of Mary Carter Owens and Vel-Holly Fleming.


Photos Dan Meyers
Fred J. Carter was born on January 6, 1911 on the Cherokee and Daniel Boone Trail near Duffield, in southwest Virginia. His ancestors on both sides came to the lush wooded mountain area with legendary pioneer woodsman Daniel Boone. Fred’s father, James David Carter, practiced law for more than fifty years in the county seat in Gate City, Virginia. His mother, Viola Fraley Carter, was accomplished in soap and rug-making, embroidery and child-rearing. Their home was filled with music, books, Native American artifacts and fossils found and collected by his father. His two sisters became teachers, two of his brothers became professors and linguists, another a war hero and author of a best-selling memoir. Carter’s beloved uncle, Ed Fraley, was a United Mine Workers member and human rights activist who left for Russia after graduating college to better understand the ideals of the 1917 Revolution. All this made the Carter family unusual citizens in a county then dominated by poverty and lack of education.

Fred Carter’s adopted son, Ross, died tragically during his first marriage, an event that would influence his thinking and artistic practice for the rest of his life. With his beautiful and young second wife, Vickie, Carter realized a miracle when he became a delighted father again at age 72 with the birth of their daughter, Holly, soon followed by the birth of their second daughter, Mary. Despite his age, Carter was an energetic, adoring father and husband. He and Vickie built their own home, incorporating an immense boulder, the subject of local Indian lore, into the structure of the house.

Fred was always a hard worker. He helped run the family farm from boyhood, worked for various hardware and furniture stores, and was a very capable stonemason. He saved money, eventually owned and operated a successful hardware and furniture store, and founded The Carter Home Improvement Company. Business was always a necessary means for expressing his social conscience through art. Fearing young people would not appreciate the lessons of their independent pioneer forebears, Carter took his collection of farming, mining, spinning and moonshining artifacts and founded The Cumberland Museum in 1970; for over a decade he and Vickie fought to keep the doors open despite lack of community support. But close friendships with artists Max Bernd-Cohen, Jack Wright, and D.R. Mullins brought him peace, direction and validation. He stayed abreast of world news to the end, always struggling to better understand humankind’s addiction to war, cruelty, destruction of nature, and the devastation of so many drug-addicted young people. “Man is becoming so dehumanized and desensitized,” Carter said. “The Biblical people would call that Armageddon. It’s just the destruction of man by himself.”
THE SHIFT FROM SCARCITY TO ABUNDANCE,
FROM NEVER ENOUGH TO THANKFULNESS FOR PLENTY

Historically, market values have been driven by scarcity. Prior to commercial electrical generation in the early 1880s, aluminum was exceedingly difficult to extract from its various ores. This made pure aluminum far more valuable than gold! Aluminum bars were displayed next to the French Crown Jewels at the Paris Exposition of 1855, and in 1884, aluminum was selected as the exclusive capstone material for the Washington Monument. When Napoleon III wanted to impress his most highly honored banquet guests, he served them on aluminum dinner sets, leaving the gold and silver sets for his lesser guests. As the process of extracting aluminum became streamlined, aluminum quickly dropped its value and became the stuff we wrap our hotdogs in and then throw in the trash. Can we imagine what a costly marvel artist Dean Millien’s aluminum gorilla would have been in Napoleon’s day?

Diamonds are actually abundant minerals. Their market availability has been tightly controlled to artificially keep their price high. With molecular duplication and 3-D printing, the notion of what has and does not have value will need rewriting—an exciting thought as humanity rides out the swift changes in manufacturing and production with a fresh eye to establishing what is truly desirable and precious to us all. Those answers might cease to be thing-oriented at all.

“WHO IS RICH? THE FEW CONTENT WITH THEIR PORTION.”
— Pirke Avot (Ethics of the Fathers)
THE ART OF WAR

Consider Sun Tzu, the legendary 6th century Chinese general and author of *The Art of War*, still one of the most widely read books on military strategy. Sun Tzu taught that the highest form of warfare is to win all your objectives without the enemy even knowing you were ever engaged in warfare. Never before has the advancement in weapon technology birthed a greater capacity for stealth warfare and its covert lethal delivery. In the wrong hands, these new nano, biological, chemical and robotic technologies are frightening. Post World War II, military patronage of scientists, physicists, chemists, biologists, and engineers soared, tipping their creativity and focus toward more and more specialized and covert weaponry systems. This effort has been coupled with an unprecedented capacity for organized surveillance and information analysis and retrieval. Couldn’t imagine how it could ever be possible to record and store every single phone call made in America? Governments can now store and retrieve oceans of personal data at the rate of yottabytes (one trillion terabytes!), sometimes called yodabytes after the *Star Wars* wise one.

Recognizing the future power of robots to be misused against humankind as disproportionately powerful killing forces, science fiction author Isaac Asimov wrote his thoughtful and ethical recommendation, the “Three Laws of Robotics”: 1. A robot may not injure a human being or, through inaction, allow a human being to come to harm. 2. A robot must obey orders given it by human beings except where such orders would conflict with the First Law. 3. A robot must protect its own existence as long as such protection does not conflict with the First or Second Law.

Sadly, these rules were never adopted, putting much in peril. New smart gun assault weapons went on sale to civilians in 2013. Manufactured in Texas, they permit “even an inexperienced shooter to hit a target 10 football fields away.” As Military use of robotic drones proliferates, so do stories of collateral damage and civilian deaths.

Crowds celebrated when the Boston police, wielding high-tech heat sensors capable of seeing through walls, discovered the suspected young Boston Marathon bomber hiding in a boat. We must remember that the very same technology, if invented only decades before, would have meant that young Anne Frank, hiding with her family behind a secret wall, would never have had the time to write her famed diary before being detected.

“THERE IS NO FLAG LARGE ENOUGH TO COVER THE SHAME OF KILLING INNOCENT PEOPLE.” —Howard Zinn

“WE MUST DEVISE A SYSTEM IN WHICH PEACE IS MORE REWARDING THAN WAR.” —Margaret Meade
KENNY RVIN, JR., Have Yourself a Happy Little Robotmas, installation, mixed media. 2013, collection of the artist. Photo: Shawn Levin
Kenny Irwin Jr. was born on May 6, 1974, in Palm Springs, California, where his father owns a spa and resort. He was his parents’ first boy after eight daughters, later joined by a younger brother. Since birth, Irwin has been dreaming “lucid dream immersion experiences of our Galactic realm in perfect memorable detail.” His dreams have provided explanations for events from long ago and those yet to come in the distant future, “spanning a timeline untold billions of years into the future, documenting alien civilizations primitive, advanced and epically diverse in infinite forms.” Eventually he discovered that much of the language appearing in his dreams was written in Farsi, Pastu, Urdu, and Arabic letters, which, he explains, are “apparently most comparable to otherworldly advanced languages.” Irwin converted to Sunni Islam at an early age. His dreams are always about other forms of life, ultra-advanced technology, and tell a coherent story from a specific beginning to an end. “It is memory of everyday life that is not as clear as my memory of dreams. I remember every dream I have ever had—numbering over 60,000 dream memories that drive the very foundation of my artwork as well as my expression.”

At 13, the artist began his ornate and imaginative RoboLights installation, a gigantic, public art experience. In its first year, the piece featured around 15,000 lights attached to Irwin’s huge recycled art robots, which he assembles by hand. By 2007, RoboLights included 6.2 million lights, and was drawing visitors and admirers from all over the world. Irwin has built over 200 robots at his family home, some as large as 68 feet tall and weighing up to 54 tons.

“Diversity, and creative expression of that diversity, can be our greatest strength, not a global quest for uniformity between all cultures. I am blessed to be in this beautiful world in an infinite realm of the unknown yet to be explored and knowledge gained through the very innocence of our curiosity that makes us simply the kind caring humans we have the capacity to be. Duas salaams.” — Kenny Irwin, Jr.
Graphene
FROM HUMBLE PENCIL TO TOMORROW’S WONDER SUBSTANCE!

Stronger than diamond; more flexible than rubber; mind-bogglingly conductive; an elegant one-atom thick... and right under all our noses—at the tip of a schoolchild’s pencil!

In 2010, Andre Geim and Konstantin Novoselov, two Russian scientists employed at the University of Manchester, received the Nobel Prize in Physics for isolating graphene (a one-atom-thick layer of graphite) using a piece of scotch tape, and for their insight into its game-changing revolutionary applications. The global race is now on to master a cheap transformation process of graphite into ultra-thin nano-graphene. With graphene, we can already imagine tomorrow’s flexible cell phones that could be folded up like a piece of paper, airplane wings with invisible built-in deicers, efficient solar roofs and plentiful, super strong and lightweight energy transmitters. Graphene absorbs and emits light over the widest range of wavelengths known for any material and does so more quickly than with any prior known material. Graphene conducts electricity 30x faster than silicon—and unlike silicon, which is brittle, graphene is flexible, stretchable, and can even be thrown into the washing machine and emerge undamaged.

Visionaries see new potential in the everyday. The biographies of many of our greatest inventors reveal that most get their best ideas in dreams, in the shower, walking alone in the woods, observing nature, or tinkering in backyard garages. The Wright Brothers were fascinated by the propeller-like twirling pods of maple trees. Wonder and wisdom lies beneath all our feet.

“SCIENTISTS MAY HAVE SOPHISTICATED LABORATORIES, BUT NEVER FORGET ‘EUREKA’ WAS INSPIRED IN A BATHTUB.”
—Toba Beta, Betelgeuse Incident
SUPPORT THE AMERICAN VISIONARY ART MUSEUM

ANN is a 501(c)3 tax-exempt nonprofit organization. As such, it relies on the financial support of individuals, foundations, corporations, and businesses who love the creative vision and freedom of ANN. Without their support, the museum would not be able to thrive and serve the community.

ANN has been granted funding from the Department of Education and the National Endowment for the Arts. ANN events and classes are funded by the Maryland Arts Council.

PFI AND THE KINETIC SCULPTURE RACE

10/11/2013. The Friends of PFI present an issue of American Society of Sculptors annual Kinetic Sculpture Race. With over 1,000 pounds of junk mail and recycled materials, a kinetic sculpture competition that challenges participants to make something from the discarded. The works will be on display at PFI, 5217 Eastern Ave., near the Beltway exit. The Kinetic Sculpture Race takes place on the first Saturday of May. You can find more information about the event on the PFI website.

ROCK & MONKEY SATURDAY ON SATURDAY, DECEMBER 21, 2013

From 5:00-8:00, join us for a holiday drinks and food event. All you can eat and drink for your donation of a canned food item. A great way to give back to the community!

PLUGGED INTO THE HILL ON THURSDAYS IN JULY AUGUST 2014

First Friday Barbecue on Fridays from 8:00 to 10:00 at the American Visionary Art Museum.

American Visionary Art Museum seeks creative minds to fill positions in education, membership, admissions, and maintenance. We offer a unique opportunity to work in a dynamic, fast-paced environment. This is a great chance to get involved and meet creative minds from all over the world.

We are an equal opportunity employer. We are committed to diversity in our workforce.

Judy Berlin and Cindy Schorr
American Visionary Art Museum
600 Universe Parkway
Baltimore, MD 21211
(410) 675-6660
www.avam.org

The American Visionary Art Museum is located in the Hampden neighborhood of Baltimore, Maryland. The museum is open Monday through Saturday from 10:00 a.m. to 5:00 p.m. and Sunday from 1:00 p.m. to 5:00 p.m. The museum is closed on Thanksgiving, Christmas, and New Year's Day.

The museum is accessible by public transportation, and there is a parking garage available.

For more information, please visit our website at www.avam.org.