

Interview Sample

(For Bridging the Knowledge Gap and the Generation Gap)

Edited and Expanded by Chien Yi Lee Based on actual conversation on Post-Science

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Would you please briefly introduce yourself?

I am Hugh Ching, the founder of Knowledge-Oriented Society, which is based on my solutions of value, complete automation, and robot touch. I have devoted my whole life to knowledge. My knowledge is the result of collaborations with the old generation people of knowledge. Even my personal lifestyle is based on knowledge. An important example is my invention of the Jumpulse Dance based on the solution of touch. Now dancing becomes my weekly routine exercise, and I am the best nightclub dancer in San Francisco. My students and I are the most popular and liked dancers. I meet hundreds of young dance fans every weekend and learn a great deal from the young generation. I am a modern Benedict Spinoza living like Immanuel Kant during weekdays surrounded by very knowledgeable old thinkers. I live like John Travolta in Saturday Night Live, without his personal problems, during weekends surrounded by beautiful young girls and handsome young men. Interestingly, from both my weekday and weekend young friends, the most frequent comment is that they want to be like me when they are my age. Exactly, the response I hoped for demonstrating my Epigenetic Lifestyle to the young generation in person, instead of just talking about it. Epigenetic Lifestyle is based on the belief that one's DNA has been designed to allow the expression of the DNA to be influenced by one's activities. I'm happy to be here to talk about, and to talk to, both the old and the young generations.

What is Knowledge-Oriented Society?

Basically, our society improves from scarcity to abundance and finally to knowledge. Currently, we are in a Money-Oriented Society. In the future, Money-Oriented Society will advance into Knowledge Oriented Society. Most relevant knowledge discoveries in the future will be the solutions to financial crises and complexity crises. Financial crises arise from our ignorance of non-violable laws in economics, and complexity crises arise from technological complexity and the cost to update to new technology. To solve these crises, both soft science and hard science are needed.

Soft Science is much harder than hard Science, because the former is much more complex than the later. **It has been way too long for science to suffocate creativity.** For example, Soft Skills, such as Personality Assessments, Leadership Skills, and Emotional Intelligence, are in the field of Fuzzy Logic or Soft Science. For example, change is necessarily fuzzy. Soft Skills require people's creativity and perception, as hard skills require mostly the analytical ability. Accordingly, Soft Science is far more complex than hard science. Even worse, Soft Science deals with the entire reality, which is infinite. Since infinite future never arrives, solutions in Soft Science are not subject to empirical verification. Therefore, the acceptance of the solutions in Soft Science must be based on complete mathematical rigor or complete logic. Both of these analytic skills require intensive training. Thus, attending college is really for the opportunity to associate with professors who have gone through these intensive training. If

one does not want to get a degree, one still needs to have some association with people with formal training in science, mathematics, and logic or philosophy.

The young generation has exposed the myth that only hard science is knowledge. In fact, science is relatively useless in daily life or in business and becomes popular due to its contribution in military competition. Today, military competition is being replaced by business competition.

Soft Skills like Personality Assessment is practical psychology based on common sense and science. **Emotional Intelligence** refers to a person's character, which can make up for knowledge in the competition for survival. In any case, all the Soft Skills should be analyzed by the solution of value, which involves 50 variables vs. 5 variables for science.

What is your view on the future of work?

Humans are for thinking, and robots are for working. Today humans work as "robot substitutes." From a long-term point of view, the reduction of working hour is inevitable when machines gradually take over human labors. **Today, most people are working on jobs which will someday be done by robots.**

The Millennial Generation has good reason to worry that there might not be enough jobs for everyone. At the same time, **the concentration of wealth will be in the hands of few who own most robots.** Soon the situation can reach a breaking point, as the rich get richer, and the poor get poorer. **Society will need a completely new social system.** Knowledge-Oriented Society can fulfill this need by making knowledge the main products of value, instead of goods and services in the current Money-Oriented Society.

In addition to Homeland Generation (0-10), Millennials (11-36), Generation X (37-48), Baby Boomers (49-69), Silent Generation (70-78), we should consider the Knowledge or Science Generation in the population over 80 and Great Depression Economists, over 95. I belong to the old knowledge generation because when I was young, I collaborated with world's top thinkers twice my age, such as Paul Feyerabend, Milton Friedman, Ta-You Wu, Kenneth Arrow, Gerard Debreu, C. V. Ramamoorthy, and Lotfi Zadeh. Now most of them are gone, except Zadeh, but I'm still here.

In today's Money-Oriented Society, people of Knowledge are largely ignored. **People of Knowledge should be and have been the most important people in the world.** They will be fully used and paid in advance in a Knowledge-Oriented Society.

Is high productivity always good for society?

Debate between Distribution vs. Productivity: Major Fallacies in Human Knowledge

When asked, a technologist will reply that the purpose of technology is to improve productivity. Yet, today society has too much productivity that financial crises are fueled by over-productivity, which, to make matter worse, is the cause of deflationary pressure. **The problem of society today is distribution.** Furthermore, the claim of human productivity is a fallacy from a universe-centered viewpoint, because **nature in its completely automated process contributes more than 99% of productivity in most of the necessities of life, such as food, shelter, and energy.**

Today, without a rational method of distribution, distribution is carried out through irrational processes, such as wars in competition for land and natural resources. Over-productions resulting in economic disequilibria lead to financial crises, central planning causes over and under-supply, and supply and demand, which neglects the intrinsic value calculations of the goods or services, results in economic instabilities. The price dependence of the future is unstable, and supply and demand is stable; together forming a semi-stable saddle point.

The real understanding of the mechanism of the Free Market seems to have died with the death of all the Great Depression Economists, the last of whom was Kenneth Arrow. The Free Market has two implications: First, the market should be free from regulations, and second, distribution should be based on the invisible hand or supply and demand. However, the Free Market is unstable as verified by financial crises and by the theoretical formulation of the solution of value. The price is the basic guidance in distribution, but the solution of price is not yet known, outside of post-science fuzzy logic team, which solved the problem of value posed by Gerard Debreu in his book Theory of Value, AXIOMATIC ANALYSIS OF GENERAL ECONOMIC EQUILIBRIUM.

Some of the most used knowledge in society are fundamentally incorrect and have negative net value. The best examples are the whole field of social science and the discipline of computer science. The law passed to solve the Savings and Loan Crisis, Financial Institute Reform, Recovery, and Enforcement Act of 1989, set up the market comparison method as the mandate standard of real estate appraisal. FIRREA of 1989 has cause the Subprime Woe 20 years later to be an order of magnitude more severe than the S&L Crisis, because all the real estate appraisers followed the incorrect market comparison approach, which kept the price rigid when the market condition had changed. Also, the current partially automated software based on artificial software standards has short-term benefits, but long-term harm. The harm has become clear in the growing software complexity crisis, where the bulk of the software budget is allocated for permanent manual update.

How does your idea differ from the Free Market of Milton Friedman?

I think the disrespect for authorities by the Millennial Generation is a good thing and a sign of progress. No one pay less respect to authority than Milton Friedman. He wanted to deregulate all man-made laws and even decriminalize hard drugs. I knew Rose and Milton Friedman since 1984, and now I keep in touch with their grandson Patri, who propose the idea of Free Market for governments. In my opinion, Milton Friedman should be considered the most powerful thinker of the 20th century. He is a milestone in the progress of economics. I would differentiate the modern economic progress into Pre-Friedman Economy of regulation by man-

made laws, the Milton Friedman Economy of the Free Market, and the Post-Friedman Economy of regulation by non-violable laws of nature in social science. To understand the Post-Friedman Economy, understanding Milton Friedman Economy of Free Market should be a prerequisite. Today, with Milton Friedman no long with us, society has the tendency to revert back into Pre-Friedman Economy. I hope that Patri will consider Post-Friedman Economy in the competition among governments.

What do you think of the Fed and John Tamny?

I read his book and like most of it, except contrary to John Tamny's view that financial crises are not predictable, I have predicted both the Savings and Loan Crises in 1984 and the Subprime Woe in June of 2006.

The US Federal Reserve Board represents the state of the art of economics. I had some exchange of information with both former Fed Chairmen Alan Greenspan and Ben Bernanke during, respectively, the Savings and Loan Crisis and the Subprime Woe. Actually, I predicted both financial crises in 1984 and in June of 2006, respectively, and help to save the later with the public US Treasury solicited comment to "lower the interest rate as much and as rapidly as possible." As far as I can see, the Fed has three problems, which it cannot solve: (1) How to detect market over-valuation, (2) How to set the interest rate, and (3) How to issue currency.

All three problems can be solved with the solution of value. If the calculated price based on expected future is lower than the market price, the real estate market is over-valued. Also, if the rate of return for stocks is lower than the historically comparable rate of return, the stock market is over-valued.

The interest rate should be set based on the logical economic relationship: Rate of Return > Interest Rate > Inflation Rate. Since only the solution of value can determine the rate of return, today's economists, except my economics friends and students, do not know how to set the interest rate, which should be different for different markets.

How to issue currency should be one of the most important decisions for a society. In a Politics-Oriented Society, money is issued for political purposes, mainly for fight wars or for calming powerful population groups. In a Money-Oriented Society, money is issued mainly to the business community, as in today's USA. During the Subprime Woe, Bernanke issued 2 trillion dollars of base money to prevent a "run on the dollar by cash-rich business families." Most of the money supply during the Subprime Woe was almost forced into the hands of banks, which could offer businessmen credits at low interest rate for business purposes, to make more money. I am the founder of the concept of Knowledge-Oriented Society, which would issue money to people, who contribute to knowledge discoveries. All the proposals on knowledge discoveries will be judged by the solution of value. **The solution of value provides full disclosure and full accountability, to infinity.** This method of issuing currency is already practiced by, for example, the National Science Foundation and the Patent Office. However, the National Science

Foundation judges the merit of the proposals based on peer review. The peer review process, akin to the market comparison method, which keeps the price rigid when the market condition has changed and is the cause of financial crises, filters out all the truly original ideas, which have no peers. **The peer review process is based solely on past data, while decisions in general should be based on the future expectation, as in the solution of value.** The Patent Office does not seem to recognize that inventors are among the most important contributors to the progress of society, because they are the source of practical new knowledge discoveries. The Patent Office sends 90% of its revenues received from the inventors to the government general office. In Knowledge-Oriented Society, inventors and researchers should be paid for their contributions. In terms of value, Knowledge-Oriented Society supports the idea of Universal Basic Income. In Money-Oriented Society, Universal Basic Income is considered mainly as welfare and has the tendency to make people lazy. But, in Knowledge-Oriented Society, Universal Basic Income will encourage all people to contribute to knowledge, not just profits. Also, money in the hands of the poor has far more great value than money in the hands of the rich, according to the solution of value and the rate of return.

What do you think should be changed immediately in today's society?

I worked with almost all the authorities in real estate appraisal, such as Bill Kinnard, James Mason, and Tom Dum, during the Savings and Loan Crisis. The real estate appraisers wanted to offer the solution of value as the solution to the Crisis, but they were defeated by the law designed by Alan Greenspan backed by the Free Market idea of Milton Friedman: Financial Institute Reform, Recovery, and Enforcement Act of 1989 (FIRREA of 1989). **I want FIRREA of 1989 to be repealed immediately**, so that real estate appraiser would no longer be licensed to use the market comparison method. The Subprime Woe was an order of magnitude more severe than the Savings and Loan Crisis because all the real estate appraisers were mandated to use the wrong method, namely, the market comparison method.

What would be the most important improvement on technology?

The most important improvement in technology is the adaptation of the completely automated software, so that every person over the age of 6 can program a computer. The Solution of Software is a condition in which the human user can communicate with the computer solely and forever in native human languages. The completely automated software achieves that goal.

Human-Language Programming can be described technically as the combination of the lowest level machine language in the form of integers and the highest level natural language in the form of human native languages or multimedia expressions, where the integers will be processed by the computer, and the human languages and expressions will be processed by the human.

Definition of Human-Language Programming: **"Human-Language Programming means that forever all human users will communicate with the computer exclusively in native human languages or human-understandable multimedia expressions."** . . . Post-Science

Human-Language Programming combines Computing with Words of Lotfi Zadeh with Computing with Integers of Chien Yi Lee to form its Universal User interface. The human user reads the Words and the computer reads the Integer.

What do you consider as the most important things in life?

The most important things to consider in life are the goal of life and the purpose of existence. The goal involves how to behavior, a subject matter in social science, and the purpose of life based on life science. In practice, my goal of life is to design a life style, which I called Epigenetic Lifestyle. The purpose of my existence is to promote Knowledge. Also, I have designed the Epigenetic Lifestyle based Knowledge. The Epigenetic Lifestyle relies on the epigenetic modification of my DNA expression of my physical, mental, and emotional states through my lifestyle or activities.

Would you please summarize your work?

I'm the founder of post-science, knowledge beyond science, the initiator of Knowledge-Oriented Society, and the designer of Epigenetic Lifestyle. My life and all my activities are based on knowledge. During weekdays, I work on knowledge dealing mainly with the avoidance of suffering in the world, for example, due to financial and complexity crises, and during weekend, I try to increase the happiness in the world with the Jumpulse Dance, which I invented using the concept of jumpulse, a sudden change of force, as impulse is a sudden change of momentum. Jumpulse is the solution of robot touch and is discovered by the Father of Chinese Physics Ta-You Wu and me.

Epigenetic Lifestyle is based on the belief that one's DNA has been designed to allow the expression of the DNA to be influenced by one's activities. An example of Epigenetic Lifestyle is my Jumpulse Lifestyle. Fundamentally, I believe that the living system is an expression of the infinite wisdom of the universe, which is contained wholly in DNA.

Epigenetic Lifestyle is based on my theoretical discovery of DNA in 1986 that DNA is completely automated software and is the accumulated wisdom of the universe from the infinite past. Expecting DNA to contain all functions for surviving and flourishing in the permanently uncertain future, Epigenetic Lifestyle depends on Epigenetic feedback from one's lifestyle to modify the expression of DNA.

What is your opinion on the current state of knowledge?

There are Two Major Knowledge Distortions in the Current Society

Money vs. Value and Productivity vs. Distribution

Money can be store of value, but we often heard that you cannot buy love, to which we could also add happiness and knowledge. The idea that “Money is value” should be replaced by knowledge is value. From knowledge, not always money, we can discover ways to love and happiness. Thus, “money is value” is a major distortion of our current Money-Oriented Society. The main difference between a Money-Oriented Society and a Knowledge-Oriented Society is that in order to make money, we must concentrate on short-term monetary returns, while to contribute knowledge, we will be working on long-term as well as short-term and non-monetary as well as monetary returns.

There is an historical illusion about productivity. The productivity of nature far exceed that of humans because all the creations of nature are completely automated, including humans themselves, and none of the creation of humans is completely automated, except the post-science solution of completely automated software. The most important product of nature is the living system. For example, without agricultural products, we would have no foods, and nature provides natural resources, without which we would have no shelter of clothing.

Nature has provided all the necessity of live since the beginning of civilization. What is needed from humans is a way to distribute these products without causing financial crises by over-production or under-production. The solution of distribution is to calculate the equilibrium state. The most popular example of equilibrium is the general economic equilibrium or the supply and demand model. The most difficult part of finding the equilibrium is the permanently uncertain future, which is variant or changes continually to the infinite future. Thus, there must be a completely rigorous mathematical system, which relates all the factors affecting the price in a space and a future extending to infinity. And anytime there is a change in the expected future, the system must recalculate a new equilibrium state. With nature providing all the necessity of life, humans are left to solve the problem of equilibrium and other problems, such as complete automation and expanding the range of tolerance in order for a creation to survive and flourish for all the possibilities in a permanently uncertain future.

What is your vision of the future?

Rationally, we need a society led by people of knowledge, not the current politicians. In particular, politicians should no longer be allowed to control the printing of money for the purpose of controlling people. The people of knowledge must understand the non-violable laws of nature in social science to guide the society away from financial crises. The society must switch from money-oriented to knowledge-oriented by making money as a convenience for the exchange of goods and services, not a goal in itself. Only knowledge, not money or power, can

contribute to human progress, whose ultimate goal is to advance human knowledge to a level that mankind can take a rightful place as a contributing member to the wisdom of the universe.

Knowledge-Oriented Society advances the vision of knowledge up to 4,000 years: social science (2000-2500 AD), life science (2500-3000), robotics (3000-4000), fuzzy logic (4000-5000), self-creation (5000-6000), after 6000 AD mankind joins the universe community and shares the universal wisdom and knowledge stored in DNA.

God (“**About every 6,000 years, mankind will have an updated definition of God.**” Post-Science)

The future Definition of God is Self-Creation based on Restrictions of Nature

An example of the Restrictions of Nature is Non-Violable Laws of Nature in Science, such as gravitation, Maxwell Equations, and Ideal Gas Law. Post-science believes that there are Non-Violable Laws of Nature in Social Science and that creations should satisfy the Requirement of Permanence, for any creation with finite life will sooner or later become non-existent. Nature is a dictator, for its restrictions are non-violable or should be obeyed for permanent survival. The Restrictions of Nature define the limit of freedom for living and non-living objects. Or living and non-living objects are free within the limit of freedom defined by the Restrictions of Nature.

Many great past and present thinkers advocate human freedom. Society and religion exist to limit human freedom. Historically, the progress of society is a process of the elimination of arbitrary restrictions on human behavior. Some modern thinkers promote the complete elimination of restrictions on freedom. In science, most laws of nature are agreed by all scientists. Scientists are not completely free in their scientific creations. Do social scientists, including religious leaders, have complete freedom in what they design or create? The answer to this question, if answered correctly, will advance mankind from the Age of Science to the Age of Social Science. Similarly, the satisfaction of the Requirement of Permanence will advance human civilization into the Age of Life Science.

To be God, one must know all the Restrictions of Nature in the creation of the living system.

But, initially, as advocated by great thinkers, God’s freedom must not be limited by arbitrary restrictions, which will come into conflict with the Restrictions of Nature with similar functionality. Fundamentally, What Is the Purpose of God? The purpose of God is to solve the problem of the universe. What is the problem of the universe? The problem of the universe is to survive and flourish in the permanently uncertain future. How to Solve the Problem of the Future? The living system must be able to self-create before it perishes. For example, humans might change, from being the created, to being the creator. Self-creation should be the ultimate goal of the living system. Technically, self-creation is programming with 0, 1, 2, and 3, and integer is the language of the universe. Self-creation will reveal, from its design specification, the meaning of life and the purpose of existence. Self-creation is the goal of existence, for what is self-created will be able to do anything the creator can do. In the new definition of God, self-creation based on knowledge will replace the almighty God based on faith and common sense.

To self-create, the following knowledge is needed to maximize value and to satisfy the Requirement of Permanence:

1. Using the solution of value to recalculate value whenever future expectation changes,
2. Using complete automation to auto-update systems of unlimited complexity,
3. To be able to expand the range of tolerance of a creation in order to cover all the possibilities for surviving and flourishing in a permanently uncertain future.

Religion

Every 6,000 years, a new Bible will be written.

People are either belonging to a religion or contributing toward the establishment of new religions. The existing religions hold as long as their replacements are still under construction, usually, under the pretense of knowledge. For example, currently, science is trying to replace religion, but is far from sufficient in scope or coverage, particularly, lacking consideration of value and life. **In general, when knowledge is mature, it becomes a religion.**

From the recorded human history, there had been only once, namely, two thousand years ago, when people felt that human knowledge was mature and they made the knowledge into religions. For example, in Christianity, Jesus was a symbol of the religion, and the wisest people at that time came together to write the Bible, as the sum total of knowledge two thousand years ago, focusing on guidance for human behavior, mainly, on morality for avoidance of evil. Most atheists today are trying to contribute toward next phase of mature knowledge, which will culminate into religions, as summations of all the correct knowledge at the time, say, in 4,000 years, making the advancement of religion every 6,000 years.

For the masses, knowledge must be accepted by faith. Even for science, the percentage of the population, who can truly understand science, is just a tiny fraction. No one should treat science as a religion, because science is value-absent and dealing mainly with non-living world. Post-science, as knowledge for the next 2,000 years, and Knowledge-Oriented Society, extend the vision of knowledge into the next 4,000 years, will not be accepted until the society is ready to accept them as religions or a part of a religion. Generally, knowledge must be accepted after both theoretically and experimentally verifications. For example, the theoretical acceptance of the solution of value is based on its complete mathematical rigor, and the experimental verification will be pain and suffering from, most likely, financial crises, such as the Great Depression or World War I and II or even III. A truthful, but controversial, view is that science is accepted because of the pain, suffering, and humiliation of defeat from wars.

In the past, before the advent of science, immature knowledge was in the form of philosophy. Currently, science replaces philosophy as the new name given to knowledge, with philosophy still plays an important role as the critics of science, mainly, on what is still lacking in science in explaining phenomena relating to value and life. To be sure, many intellectuals are thinking in fields like Artificial Intelligence and cognitive science, trying to copy directly from nature or to

recreate the living system. These intellectual, unknowingly, could be considered the group building up to write the next Bible and to form the next religion. Even the Bible was reformed by Martin Luther, making it timely. However, due to the difficulty in setting up a whole system of knowledge, the establishment of religions to replace the old religions could be expected to take a very long time. In conclusion, old religions will be gradually weakened by new discoveries in knowledge but, religion will occupy the central position in the affairs of people and in the history of mankind. People were as confident of the old religions at the time of its founding as they are confident of science today.

Who will be the future leaders of the world?

Even though post-science solutions are difficult to understand, post-science is in a good position to pick future leaders of society. For example, I expect Richard Stallman to be historically significant for demonstrating with his Free Software Foundation the feasibility that people are willing to work in knowledge for no pay, David L. Katz for introducing Lifestyle Medicine, and Patri Friedman for originating Blue Frontiers:

Blue Frontiers

or

Post-Science, Self-Creation, Jumpulse, etc.

A Virtual Nation of High Culture Level

The citizens of Blue Frontier will be selected among people of high cultural level plus among natives, who will be automatically accepted as citizens. The citizens will have a basic income through the guarantee of a minimum amount of \$100 in their digital wallet.

Most of the new citizens will be people of high culture, which will be reflected by their knowledge level. Thinkers are most welcome to apply. The virtual nation will be a gathering place for the rich and knowledgeable to execute the ideas of visionary thinkers. The post-science fuzzy logic team will be able to contribute the solution of value to dominate financial analyses world-wide, UPNcoin to compete for the most convenient digital currency in the world, the Jumpulse Stroke to dominate sports coaching, the Computer Newspaper to dominate information, the Completely Automated Self-Checkout System to completely automate transactions in the nation.

BF will be the home of completely automated software, which will enable everyone over the age of 6 to program a computer in their native language. BF will be the

headquarters of post-science fuzzy logic team, where post-science is knowledge for the next 2000 years, and fuzzy logic extends the vision of knowledge to the next 4000 years. BF will be the first nation ready to welcome space aliens with a culture commensurate to the universe-centered point of view, which focuses solely on the understanding and the improvement of DNA, the wisdom of the universe accumulated from infinite past.

What is your view on education?

Education: Education is mainly to serve the dominant culture of a society. Briefly, politics, money, and knowledge oriented societies educate people, respectively, to serve the government, as in ancient China, to serve the market, as in the current society, and to serve knowledge for all the people. Thus, the purpose of education should be to raise the cultural level of the students. The cultural level of a student can be raised by association among people of high cultural level. Generally, the wisest among us should be teaching the youngest among us.

Different cultural levels can exist in a society. A school system should reflect the cultural level. Therefore, a school system must have a complete system from kindergarten to post-doctoral within its own system. The higher level students can participate in the education of the lower level students. The school must be led by the foremost visionary thinkers of the world from the past and the present. The close interaction among all students and teachers is akin to a mentoring system than the modern mass education of knowledge of the establishment. The identification of these top thinkers is not easy, but is the key to the success of the school system. The thinkers hopefully can be of the caliber of Paul Feyerabend, Ta-You Wu, Kenneth Arrow, Gerard Debreu, Lotfi Zadeh, Milton Friedman, Richard Feynman, Francis Crick, Aleksandr Solzhenitsyn, Norm Chomsky, Richard Stallman, etc. In the past, for example, Socrates, Plato, and Aristotle formed such a system spanning three generations, and similarly in the East, Lao Tzu, Confucius, and Mencius formed a schooling system also spanning three generations, and together established the foundation for the world's thinking for the past two thousand years. During the early stage of the scientific revolution, scientific geniuses were often from the same family, due mainly to cultural influences within the family. Also, David Hilbert, Richard Courant, and their students formed a dominating circle of closely associated mathematicians to these days. Another example was that Caltech was made the world best in **science** by just three scientists, astronomer George Ellery Hale, chemist Arthur A. Noyes, and physicist Robert A. Millikan.

Human culture was initially dominated by politics. In the modern time with the rise of the middle class, money starts to replace politics in dominating the culture. The futurists of today envision a technology-dominated culture. However, throughout the recorded history, culture has always been dominated by knowledge. In fact, culture has been and will always be dictated by knowledge. Knowledge is an unforgiving dictator, fully ready to deliver pain and suffering when its non-violable laws of nature are not observed. For example, today's technology is

based on science, and science is value-absent and condones finite consideration and temporary creations. Scientists are like children playing with fire, with neither the concern for the consequences of science nor the permanent sustainability of our world. Thus, the technology based on science will not be able to address problems in social and life sciences, which, respectively, takes into consideration of infinity, which characterizes reality. The requirement of permanence characterizes all the creations of nature. In today's technology-dominated culture, society is being plagued by chronic financial crises, which grows in ever-increasing magnitude. Today's society will soon face complexity crises, as demonstrated in a small scale by the current software crisis, in which almost the entire software budget is used for software maintenance or update from one temporary standard to another, ad infinite. In practical terms, every line of software code one writes piles up on the already huge mountain of software codes, which need permanent manual update, waiting for the day when there will not be enough human resources to maintain the codes. The solution to unlimited complexity is complete automation, as in life.

What is your view on freedom?

Freedom

A precisely programmed robot has no freedom. To give it freedom or free will, its creator has to expand its range of tolerance. Science is precise, following the exact laws of nature in science, but social science is fuzzy due mainly to the expanded range of tolerance, which gives humans, animals, insects, and plants sufficient freedom to choose so that they can survive and flourish for all the possibilities in the permanently uncertain future. Thus, freedom exists or is created for a definite purpose.

With the understanding of the origin of freedom, freedom can be viewed from two points of view: Technical Freedom and Non-Technical Freedom. Roughly, Technical Freedom is understandable only to technically-trained people, and Non-Technical Freedom can be understood with common sense and deals generally with the elimination of artificial restrictions on freedom. Most common usage of freedom refers to Non-Technical Freedom, for which Milton Friedman proposed full deregulation. **Formally, Technical Freedom relates to constraints on freedom or defines the limit of freedom.** For example, science has introduced precise non-violable laws of nature, which regulates precisely the movements of physical objects, without any freedom. And technically trained people in post-science understand the fuzzy non-violable laws of nature in social science restricting the freedom of human behavior within the range of tolerance. A good example of non-violable laws of nature in social science is the post-science solution of value, which is a mathematically rigorous relationship between the price and the rate of return, dictating what price to pay based on one's expected rate of return. An investor can decide within the range of tolerance either a price or an expected rate of return, but not both; financial crises are the result of naming the price without considering the rate of return or knowing the relationship between the two. But, the price has a range of tolerance, say, 40%, before crash.

In life science or computer science, the restriction on freedom is the Requirement of Permanence. All the creations of nature are designed for permanent existence. For example, although life is finite, DNA has been designed for permanent existence through reproduction or cloning. Two entities of similar functionality, the one with permanent existence is infinitely more valuable than one with finite existence. This should be particularly true and urgent for computer software, for software is in a maintenance crisis, where the bulk to software budget is occupied by maintenance, and the situation can only become worst as software requiring manual updating piling up. Richard Stallman wants to eliminate all the non-technical barriers, including economic, legal, and political, of software. He has demonstrated with his life that this is possible against the entire Money-Oriented Society. Post-science, of which I'm the founder, believes that a solution to software is available for eliminating the technical barriers described at: <http://humanlanguageprogramming.com>. Together with the elimination of technical as well as the non-technical barriers to software freedom, software, as an automated form of knowledge, can be completely free. Complete software freedom will be necessary when software becomes completely automated, when software can be transferred freely and updated to new versions and among programmers.

Finally, a Knowledge-Oriented Society deals with the future: Recalculate whenever the future expectation changes using the solution of value, auto-update to any new standards using the solution of complete automation, and expand the range of tolerance, sacrificing precision, to cover all possibilities of the permanently uncertain future. [By Hugh Ching 2017]

What is your most important advice to young people?

One must decide at a young age to be for money or for knowledge. I do realize that the most intelligent people of the current generations are billionaires, as the most intelligent people immediately after the Great Depression were economists. A young person, devoting a life to money, will end up with deep pocket, but empty head. A young person devoting fully to knowledge will be poor, but satisfied. Therefore, I am proposing Knowledge-Oriented Society, in which knowledge, not profit, is equivalent to money, as in the Quantity Theory of Money $PQ = VM$, where P will not be just goods and services, but also knowledge.

Regardless what career path a young person chooses, I would recommend that she or he should strive to be kind and to spread kindness in the world, for the goal of the universe is for good.

What would you like to accomplish in your lifetime?

To survive permanently.

The ability to solve crises separates humans from animals, which are at the mercy of nature. Currently, science not only cannot solve financial and complexity crises, but are actually contributing to these crises with over-production and over-complexity. Thus, knowledge has to advance beyond science to go to post-science in order to realize the true potential of

knowledge. Social and life sciences, not science, are the most relevant knowledge and requires completely rigorous mathematics and logic.

Fundamentally, What Is the Purpose of Knowledge?

The purpose of knowledge is to solve the problem of the universe. What is the problem of the universe?

The problem of the universe is to survive and flourish in the permanently uncertain future.

How to Solve the Problem of the Future?

The living system must be able to self-create before it perishes.

The human will change from the created to the creator.

Self-creation should be the ultimate goal of cognitive science and of artificial intelligence.

Technically, self-creation is programming with 0, 1, 2, & 3; Thus, integer, not English, is the language of the universe.

Self-creation will reveal, from its design specification, the meaning of life and the purpose of existence.

Self-creation is the goal of existence, for what is self-created will be able to do anything the creator can do.

To self-create, the living system needs to have the following knowledge:

- 1. Using the solution of value to recalculate value whenever future expectation changes,**
- 2. Using complete automation to auto-update systems of unlimited complexity,**
- 3. To be able to expand the range of tolerance of a creation in order to cover all the possibilities for surviving and flourishing in an uncertain future.**

I really appreciate the opportunity to bridge the knowledge gap and the generation gap.

What is Post-Science View on the Knowledge Gap and the Generation Gap?

The Middle Class started and ended with Milton Friedman. It took three generations for Business to Replace Science as the new Establishment. The three generations of Baby Boomer, X-Generation, and Millennial Generation transform Politics-Oriented Society to Money-Oriented Society dominated by the Middle Class. The last of the Great Depression Economists Kenneth Arrow passed away on February 21, 2017. The Silent Generation prior to the Baby Boomer Generation is really the Defeated Science Generation, defeated by the Baby Boomer, as Money surpasses Science as the main preoccupation of society. The Baby Boomer found difficult to compete against the older Science Generation in Science, which serves politicians in national defense, and switched to the pursuit of Money. It was the beginning to Money-Oriented Society.

The Great Depression Economist Milton Friedman had finally a chance to try out his solution for the Great Depression in the Subprime Woe. Fed Chairman Ben Bernanke had followed his advice to increase money supply and my public comment to “lower the interest rate as much and as rapidly as possible.” Bernanke was able to turn another potential Great Depression into a Great Recession. Milton Friedman Passed away on November 16, while I predicted the Subprime Woe in June of 2006.

Each established social order has its own knowledge and education. Historically, the establishment transformed from Religion 2000 years ago to Philosophy to Science and now to Business. In the future, Business might transform into Knowledge to cover Science, Social Science, Life Science, and Fuzzy Logic.

There are some signs that the leaders of Money-Oriented Society, namely, the Billionaires are for Knowledge-Oriented Society. Knowledge Awards are being offered for breakthrough ideas. The new knowledge intends to be disruptive and disobedient, in contrast to the old scientific knowledge awards for the advancement of Science.

Creativity and Perception occupy as important position in Business as the Analytical Ability. Thus, Money-Oriented Society puts all human mental faculties into use, breaking the dominance of Analytic Ability in Science. Furthermore, Soft Skills, in the form of Emotional Intelligence, Leadership Skills, and Personality Assessment, start to be considered equally important as IQ.

The central question in ability assessment resurfaces in Money-Oriented Society: How to assess anything, such as intelligence, personality, creativity, etc.? Money-Oriented Society has a clear-cut solution: Measure ability by the amount of money. Knowledge-Oriented Society emphasizes problem solving ability or thinking ability. For example, Billionaires are the most intelligent in the Money-Oriented Society, as Great Depression Economists, the most intelligent people in their generation. Soft Skills belong to the field of Fuzzy Logic or Soft Science. The Father of Fuzzy Logic Lotfi Zadeh should be considered the best thinker in history, because his Fuzzy Logic extends the vision of Knowledge beyond Post-Science to the next 4000 years. In particular, Emotional intelligence is directly related to the range of tolerance, the source of fuzzy logic.

Will Programming be the Fourth “R”?

Three Generations of Software Standards are: First Generation: IBM High Technical Barriers To Second Generation: Microsoft Plug and Play To Third and Final Generation: From Plug and Play to Human-Language Programming

The Solution of Software is a condition in which the human user can communicate with the computer solely and forever in native human languages. Human-Language Programming can be described technically as the combination of the lowest level machine language in the form of integers and the highest level natural language in the form of human native languages or

multimedia expressions, where the integers will be processed by the computer, and the human languages and expressions will be processed by the human.

The Post-Science Definition of Human-Language Programming is "**Human-Language Programming means that forever all human users will communicate with the computer exclusively in native human languages or human-understandable multimedia expressions.**"

A Knowledge Breakthrough could be that Programming becomes the fourth "R" of the basic skills of Reading, Writing, and Arithmetic. Human Language Programming can be used to enhance the learning of reading, writing, and arithmetic through programming.

Human-Language Programming combines Computing with Words of Lotfi Zadeh with Computing with Integers of Chien Yi Lee to form its Universal User interface. The human user reads the Words and the computer reads the Integers.

A NSF Proposal is Completely Automated Software Foundation and Its Applications in All People Programming Language and Self-generated Software Cell Simulating Biological Cell

Important Demonstration of Completely Automated Software:

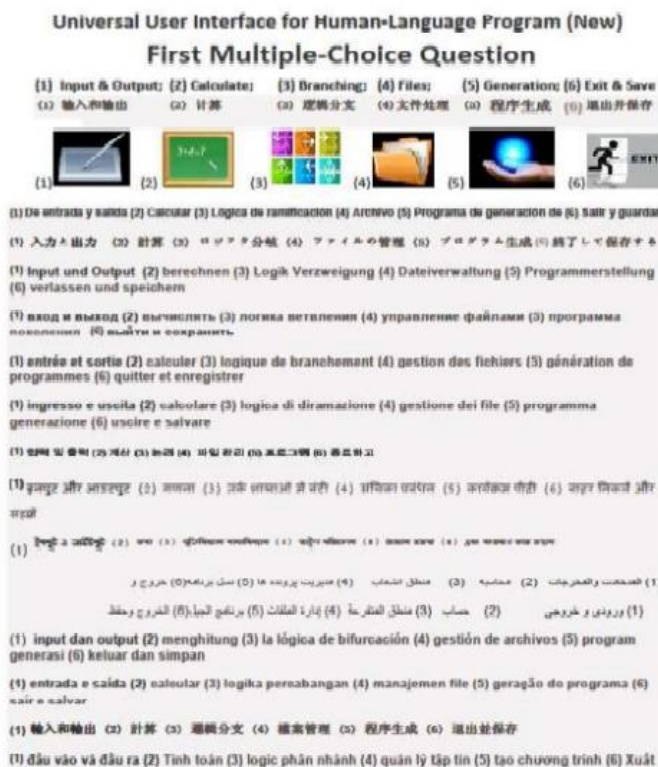
1. Copy two programs psb.com Click here for new.bas to DOS operating system,
2. Type at DOS Prompt psb new.txt (e.g. C:\>psb new.txt) (you might need to rename new.txt to new.bas: ren new.txt new.bas),
3. Follow instructions (first time try choosing Item 1 Program Name = test and then type 1 1 1 Hello {Enter} 6 1 1) (Type {Enter} to continue), and
4. Read instructions and write programs with this NEW computer language for anyone over 6 years old.

The human-language program generator New is written with a program generator Old, which can self-generate and, thus, dissociates with past technology from which it is derived.

A Post-Science Vision is that the world will be greatly improved by post-science through complete automation when Self-Manufactured General Purpose Robots, which can safely interact with a uncontrolled environment, are programmed by completely automated All People Programming Language, which can be used by all people over the age of six, and the Robots are valued by the Infinite Spreadsheet, which determines the value of the Robots taking into consideration all its benefits and losses to infinity in time. The Self-Manufactured General Purpose Robots, the All People Programming Language (APPL), the Infinite Spreadsheet, and their byproducts are described below.

Complete Automation creates permanent entities with infinitely greater value than temporary entities. Permanent entities, such as permanent software and DNA, can be created through complete automation and will be infinitely more valuable than temporary entities. An example of these permanent entities with great value is foods, which can be completely automatically produced by nature. Funding decisions should be based on valuation, not peer review. Truly original, transformative innovations should have no peers.

Proposals to National Science Foundation have initiated four post-science debates: (1) Software Debate (Completely vs. Partially Automated Software), (2) Valuation Debate (Infinite vs. finite consideration), (3) Touch Debate (Is touch a physics problem? A proposal has been submitted to Dynamic Systems), and (4) Freedom Debate (e.g. Constrained vs. Freedom, Free Market vs. non-violable laws of nature, Free Software vs. software design criterion of complete automation). NSF should initiate a Complete Automation Research or Debate to create permanent entities. Today's engineers can only create temporary products, which will someday become obsolete. The completely automated software proposal has been submitted to Computing Expeditions, and completely automated hardware in the form of Self-Manufactured General Purpose Robots should be solicited by EFRI, for the software will become DNA, and the Robot, human.



What is the difference between soft science and hard science?

The critical question, whose answer could take us a lifetime to convince the public, is that if soft science is so much more difficult than hard science, why are we dealing with soft science with such an ease by most people today? The fundamental question should be what is the difference between common sense and uncommon sense? Most people today deal with soft science with common sense, but to find correct answers in soft science requires uncommon sense. This is the observation of Tyler Cowen when he claims that there are few low hanging knowledge fruits for us to pick. For example, the price can be determined simply by market comparison in most cases, using common sense, but the correct equilibrium price can only be determined by uncommon sense, in this case, complete mathematical rigor, which means that the consideration must include the infinity space and in the infinite future in order to obtain a deterministic system, with an equal number of equations and unknowns. To be sure, the common sense answer is acceptable within the range of tolerance of the market, which is about 40% +/- 10%. If the over-estimation of the price is over the range of tolerance, the market will

crash. Thus, if humans continue to use just common sense to handle all our problems, financial crises and complex crises will continue to plague our society; humans will be like animals at the mercy of nature and its non-violable laws.

Actually, I am the severest critics of the National Science Board or NSF, which is the only scientific organization that I have time to criticize and update, constructively. I look up the top 20 scientists. I know all their works, but if I comment on them, there would be more criticisms than praises. Basically, scientists today are not trained in pure reason, which Kant believes is mathematics and logic. Believing in non-violable laws of nature in science is based on faith. However, post-science believes that the foundation of knowledge is faith, not reason.

What are your views on evil, wars, and suffering?

I believe that evil, suffering, and wars are parts of Intelligent Design. Evil is designed as a survival mechanism for the weak to compete against the strong. Suffering is needed to teach the existence of non-violable laws of nature. Wars are irrational method of arbitration. But, without wars, mankind will not realize and fully embrace the concept of the existence of laws of nature in science. Science is still incomplete knowledge, and, just by itself, is with many faults, such as value-absent, partial, not complete, automation, and suffocation of creativity and perception with the dominant the use of human analytic ability.

What would be your solution to peace and corruption?

The solution to peace is through the elimination of competition, which, however, is the engine of progress in the absence of a rational method of arbitration. The solution of value is also the solution of arbitration, such as the arbitration of the price.

Society progresses from Politics-Oriented to Money-Oriented and to Knowledge-Oriented. Thus, it advances from military competition to business competition to knowledge cooperation. Violent rulers lead Politics-Oriented Society, and competitive businessmen dominate Money-Oriented Society. Cooperative thinkers will guide Knowledge-Oriented Society. Thus, society advances from military competition to business competition to knowledge cooperation.

Knowledge-Oriented Society advocates the practice of Universal Basic Income, which is based on the belief that nature, not humans, provides most of the necessity of life through its completely automated process of production. Universal Basic Income is desirable simply because money in the hands of the poor has far greater value than money in the hands of the rich. In addition to the value increase, Universal Basic Income will mitigate business competition. The mood of cooperation in Knowledge-Oriented Society can eliminate all the unnecessary competition, such as wars. Thus, the solution to peace is the establishment of Knowledge-Oriented Society. Corruption belongs to the category of irrational competition or evil, which will be rendered unnecessary when cooperation replaces competition.

I am collaborating with my friend Richard Stallman on achieving complete cooperation in software, which automates knowledge. We are working independently to achieve complete freedom for software. Complete freedom means that software is free from restrictions imposed

on it legally, politically, and economically and is free from the need to manually update from one version to another. Complete software freedom means the complete elimination of software legal, political, economical, and technical barriers to software usage. Richard Stallman has spent his whole life testing the feasibility of knowledge cooperation in society, in particular, in software cooperation leading to the free software and open source movements. Knowledge cooperation is a part of the design of Knowledge-Oriented Society. Our pioneering effort in mankind's knowledge cooperation opens the door to a fully cooperative society.

What are your views on God and Religion?

There are two ways to look at the living system, in particular, the condition of human being, either positively or negatively. I take the positive view, meaning every creation is for good, due to my discoveries about DNA. To me, God is someone who can program the living system with just the DNA bases 0, 1, 2, and 3. I have replaced A, C, G, T of the DNA nucleobases with 0, 1, 2, and 3, after my theoretical discovery of DNA in 1984 by identifying DNA as completely automated software, which I patented in 1996. A, C, G, and T are meaningless in computer science, while 0, 1, 2, and 3 can be paired and add up to 3s complement as a parity check. To be further noted is that with epigenetic functions contained in DNA and the capability of the living system to self-create, DNA can be considered the wisdom of the universe accumulated from the infinite past. Furthermore, it could be speculated that the 97% of non-coding DNA represents the range of tolerance in preparation for surviving the permanently uncertain future, and that the documentation is contained in the longest DNA, which are in bacteria, not in advanced animals.

On the other hand, religion, in particular, the Bible represents the wisdom of mankind accumulated from the beginning of human civilization on earth. Since the Bible, mankind has made numerous advancements in knowledge, especially, in science, which is the most advanced of all accepted human knowledge up to now. But, science is still value-absent, for society still cannot solve the problem of financial crises. And science still cannot produce entities of permanent existence without the solution of complete automation, as all creations of nature have been designed for permanent existence. Post-science fuzzy logic team estimates that it will take roughly another 4,000 years before we can write a replacement for the Bible and forming another new religion, which will likely include both science and post-science plus fuzzy logic. If we view the living system positively, in particular, regarding religion and the Bible, we see that mankind before the Bible had been working hard to write a book of wisdom to the best of their knowledge and to form a religion based on the holy book. Similarly, the Bible replacement in approximately 4,000 years will be a record of the culmination of human wisdom based the best of the knowledge of the people of 4,000 years into the future. I am sure that the authors of the Bible 2,000 years ago were just as confident about the Bible as the truth, as we are today about science and rationality as the truth. And in 4,000 years, the same confidence will apply to the replacement of the Bible and the new religion. However, if we view the world negatively, we see nothing but criticisms about the Bible and religions by the people who have advanced beyond the Bible in knowledge. In conclusion, it is important to note that before the knowledge of value and life is completely known, the existing Bible could still be the best guidance for human behavior for the majority of the population.