

THE SURVIVAL OF CIVILIZATION



Carbon Dioxide

Investment Money

Population

1982

Three Problems Threatening Our Existence

Soil, Tectonic, Climate & Economic
Systems Explained—Problems and Solutions
Selected Papers by JOHN D. HAMAKER
Annotations, Supporting Evidence by
DONALD A. WEAVER

The Survival of Civilization

depends upon our solving three problems:
carbon dioxide, investment money and population.

Selected papers of
John D. Hamaker

Annotations by
Donald A. Weaver

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Communications may be addressed to:

Don Weaver
Earth Health Regeneration
P. O. Box 620478
Woodside, CA 94062
e-mail: earthdon@yahoo.com

Quotes From Readers of *The Survival of Civilization*

“I have received and read John Hamaker’s *The Survival of Civilization*. Well done – completely convincing. I explained in *Critical Path* my whole grand strategy for what I could see would be the most effective way in which I might carry on. This does not include joining political forces with anyone. It does include using every opportunity afforded to clarify for those asking me to speak to them just what I think they might do to be effective in coping. I will tell all those inquiring of me about matters relevant to our survival that they had best read Hamaker’s book *The Survival of Civilization*. Gratefully, faithfully,”

Buckminster Fuller

(Very possibly the most intelligent and synergistic thinker of the 20th Century)

“*The Survival of Civilization* is regarded by a growing movement worldwide as a blueprint for the survival of the Earth, restoring ecological balance and, perhaps, even recreating Eden. The health and well-being of all living things ultimately depends on a highly mineralized, alive and vibrant soil. Rock dust adds up to a hundred elements and trace minerals and can greatly increase yield and quality of food, making organic agriculture truly viable. Undertaking the task of remineralization is urgent to restore our agricultural soils, to save the dying forests in the temperate latitudes, and to stabilize our climate.”

Joanna Campe, Editor

Remineralize the Earth magazine

“This visionary book shows how the survival of civilization depends upon the recovery of culture and agriculture from ignorance and greed. This recovery

entails the transformation of agribusiness practices, politics and economics by natural science and bioethics. ***The Survival of Civilization*** is based upon natural science, not the reductionistic and mechanistic corporate science of industrialism. Natural science leads to ecological wisdom. Healthy soils mean healthy crops and healthful foods. Bioethics leads to reverence for all life, including the living soil, and in the spirit of this book, moves us to radical compassion and spiritual anarchy: new ways to live, to farm, to be.”

Michael W. Fox, author and senior scholar, Bioethics, The Humane Society of the United States

“It is essential in the current ‘global warming’ debate to heed the many climatologists who predict not merely rising sea levels but the threat of an imminent Ice Age. Today’s freakish weather—high winds, downpours, tornadoes, earthquakes—harbinger of such a coming deep freeze, was predicted years ago by the authors of ***The Survival of Civilization***, a subject which is, or should be, of paramount interest to mankind.”

Peter Tompkins, co-author of ***The Secret Life of Plants*** and ***Secrets of the Soil***

“I write the ‘Annual Review of the Environment’ for the ***Encyclopedia Britannica***, and I have written several environmental studies textbooks. John Hamaker has developed a beautiful and comprehensive theory of climate change, every element of which is supported by scientific evidence. His theory has been sitting under the noses of many other scientists, but they have largely overlooked it. In my judgment, John Hamaker’s theory is a major contribution to humanity.”

Prof. Kenneth Watt
Evolution and Ecology Dept., U. C. Davis

“The world is in transition from a hydrocarbon-based society (fossil oil, gas and coal) to a carbohydrate society (crops, crop and forestry residues, hybrid trees and grasses, yard and garden trimmings, and the biomass part of garbage heading for the dump). More biomass is needed. The transition requires clean water and air, nutrients, and environmentally enhancing agricultural/forestry practices. These are growers’ responsibilities. This includes the need to restore the mineral base of the soils—minerals that have been depleted since the last ice age, as ***The Survival of Civilization*** points out. Biorefineries ‘recycling CO₂’ in every county and bioregion will contribute to national and energy security, new industries, good jobs, democratization of energy supplies, and to U.S. leadership by example in a world of people and other living things, intuitively knowing that human synergy with nature is an absolute imperative.”

William C. Holmberg, Director, American Biofuels Association, Virginia

“Hamaker and Weaver aptly point out the importance of natural soil remineralization. Their claim we should imitate natural grinding and transportation by technical means to induce new life for the organic-mineral buildup of soil seems purely logical. With CO₂ rising dramatically, evidence points to a new ice age period approaching rapidly. It will need all our courage, knowledge and joint global activity to slow down the impact. The starting point must be the buildup of the linkage system of soils. Man is still the missing link in the restructuring of the biosphere he is in danger of destroying.”

Dr. Gernot Graefe, agro-ecologist, Germany

“The diminishing mineral content of our food supply affects everyone, including many who consume natural foods. Inadequate mineral content diminishes food quality and thereby reduces the potential health benefits of whole foods. Even much of our organically farmed land no longer yields such vital, mineral-rich food crops as were found earlier this

century. Clearly food quality should be a major concern for people throughout the world. Mineral depletion also feeds directly into the whole problem of the 'Greenhouse Effect,' as so eloquently explained by John D. Hamaker in his superb book, ***The Survival of Civilization***. This is must reading for everyone on the planet."

Mark Mead, writer, Massachusetts

"In each generation an idea is born that alters mankind's perception of itself, life and all that is about. There is an awakening from ignorance which once initiated alters the hopes, fears and aspirations of those who experience it. Such an idea has occurred in the mind of a man called Hamaker, co-author of ***The Survival of Civilization***. The concept he presents is simple and chilling. It provokes that age-old drive to survive."

Henry Osiecki, Australia

"I've just finished ***The Survival of Civilization*** and I've never read a more interesting, provocative, astonishing and truthful book in my life!! It should be required reading in every grade, junior high, high school and college in the world!!! I've been an organic gardener for fifteen years but never realized the importance of minerals in the soils. I've had some excellent results using compost but I've had a few problems and now know why. Thanks so much for sharing your love of life with humanity. I truly hope it's not too late for all of us. What is being done now? What can be done? What can I do?"

Nathan Bales, Arizona

"Hamaker's concept of the 100,000-year atmospheric CO₂ cycle that drives (triggers) the glaciation process, and that we might be able to control the CO₂ cycle through soil remineralization is certainly fascinating. Based on the knowledge I have of soil and plant sciences plus climatology, I don't see any

flaws in the concept. At any rate it would seem most imprudent to sit idly by waiting for the return of an ice age to verify his concept when we have the means to regreen the Earth, thereby reducing atmospheric CO₂. It's important to note that regreening of the Earth would do society an immeasurable amount of good even if it did not avert a glaciation."

Bob Dixon, former USDA scientist
The Imprinting Foundation, Arizona

"It is becoming increasingly and excruciatingly apparent that human activities are destabilizing the Earth's climate. By shooting unimaginable quantities of carbon dioxide and other greenhouse gases into the atmosphere and by ripping the ozone layer asunder, we are jeopardizing the conditions that make human life possible. How long we have to shift from fossil fuels to renewable non-polluting fuels such as solar is a matter of dispute, yet even the most optimistic scientists acknowledge it isn't very long. Is there any way to widen the window of opportunity and expand our odds? John Hamaker's work makes it clear that if we remineralize the soil through the widespread application of rock dust, we'll have a much better chance of restoring balance, saving our dying forests, generating a healthy agricultural base, and stabilizing the climate."

John Robbins, author
Diet for a New America and *The Food Revolution*

"Only rarely does a publication come along that provides an adequate long-view understanding of planetary dynamics that affect our small history-bound lives. This new release of ***The Survival of Civilization*** with its companion volume could not be more timely to awaken us and our political and economic institutions with its clarion call for change. A work as clear and brilliant as this has the power to break us out of our denial and paralysis. Let us ask those in leadership worldwide to read and comprehend it. Let all of us do our essential part to re-green and re-forest our homes and bioregions and

remineralize the precious soil on which all life depends.”

Sister Miriam MacGillis

Genesis Farm Educational Center, New Jersey

“It is the positive side of remineralization which is so appealing, that each of us, in one way or another, can do his or her bit to re-adorn the earth with her beauty and abundance. Clearly scarcity was never intended by the Universal Heart and Mind. It is the result of mismanagement. Restoring the fertility of the soil is vital for everyone. Alas! Human beings seldom do the necessary thing unless they are also afraid of its alternative. John Hamaker and Don Weaver spotlight the threat that should make us take action *now*— namely that we have hastened the coming of the next ice age to the point that it may well grip us before the end of this century. They tell us that we can still avert it if we remineralize the earth *now*, causing great increases in biomass, green cover, forest plantations, luxuriant high-quality foodstuff that will absorb the CO₂—which is the chief cause of climate deterioration.

“The prevention of the oncoming ice age will cause mankind to unite. Earth, soil, food, water, warmth, are fundamental to all. None can survive without them. An ice age eliminates them all. Friend and foe alike will suffer and die. Thus humanity working together, uniting to live, can rediscover the brotherhood of man! Harmony among people can change the future to one of peace, abundance and well-being. Mother Earth gives us the opportunity, simply and gratefully, to give as we have received.”

Betsan Coats, founder

Men of the Trees Queensland and Hamaker Coordination Network

“The mechanism of cooling suggested by Hamaker and Weaver—increased evaporation of ocean waters, transport of clouds toward polar regions, increased snow and ice formation, increased albedo and movement of ice masses from the poles—I consider as fully applicable and valid. I am certain

that global reforestation of the mountainous regions to the tropics, regular rehumification of arable soils, control of soil erosion, remineralization of acid soils, and reasonable fertilization of all arable soils will very much improve the planetarian balance of CO₂ in the biosphere. Of course every continent, natural region and particular country requires its own concrete program and sequence of actions. But general theoretical principles and technology must be coordinated to be complementary to each other.

“I am very much impressed with the intention to put the ‘Problem of Earth Regeneration’ as the global super-problem to the governments and scientific circles as a vital subject of peaceful international cooperation in the interests of humanity of the 21st century.”

Victor A. Kovda, Director
Institute of Agricultural Chemistry and Soil Science, Moscow

“The buildup of atmospheric carbon dioxide poses one of the most challenging problems that humanity has ever been faced with. Gaian evolution is ‘forcing our hand’ so-to-speak. Peoples of the world must either acknowledge the magnitude and seriousness of the problem, lay down their arms, and join together in a world-around effort to replenish our soils or endure untold suffering.”

Greg Watson, former Secretary for Science & Technology, Massachusetts and Director, New Alchemy Institute

“Evidence continues to mount as to the validity of John Hamaker’s thesis regarding the underlying causes of the glacial cycles the Earth experiences at approximately 100,000-year intervals. His engineering background and experience in solving real problems fostered a systems view in putting together the many diverse elements of this puzzling phenomenon. In extending his construction beyond the physical observations to include social and economic characteristics of humans, he laid the framework for seeking comprehensive societal approaches to devising possible solutions. The

systems approach, so generally lacking in the training and fragmented structure of the academic research environment, forces the investigator to model the known elements of the puzzle into an interactively balanced operating relationship consistent with human experience. It is an incumbent requirement for anyone challenged with performance as the measure of success in any attempt to solve a problem. Lacking such a requirement, the academic research community mires in a self-perpetuating bog of papers and grant applications. Don Weaver's extensive search of the literature supports and materially contributes to an understanding of the thesis. Still, vision, action, and recommendations for action characteristically elude that research community.

“**TSOC** lays out a compelling picture of the climatic process and proposes actions that stand on their own merit irrespective of the validity of the thesis in all detail. The persuaded reader must risk acting on that persuasion in his or her own individual setting. No enlightened scientific, political, or economic entity will champion the coordinated effort necessary to address the still-uncertain timing and severity of the challenge Hamaker and Weaver lay out without such convincing evidence of individual commitment.”

Frederick I. Scott, Editor
American Laboratory and ***International Laboratory***

“The Hamaker-Weaver study exposes serious flaws in the official warming theory. It presents a well researched case that cries out for an urgent investigation. In 1982 they first urged specific measures, on a crash basis, to reverse the deadly climate shift now gaining global momentum. Their arguments were ignored but never scientifically refuted. Meanwhile, without our knowledge or consent, our government is betting our lives on a flawed warming theory that has not been subjected to open examination or public debate. . . . The potential benefits to humanity of global soil remineralization could be the dawn of a new era of health, abundance and a higher quality of life. It is no exaggeration to say humanity is now poised on the knife-edge between a glorious rebirth and the final abyss.”

Bertram Cohen, New York

“The Survival of Civilization is a most compelling and inspiring work on soil remineralization and Earth Regeneration! As a farmer and arborist I’ve seen and tasted the fruits of remineralized soil and urge growers everywhere to experience the benefits of remineralization. Most importantly, the book’s message and logic go beyond the simplistic models being used to anticipate climate changes, foreseeing a massive breakdown of our interglacial life support system. Combining this with information on human and animal health, and our inextricable dependence on soil organisms makes **TSOC** a Millennium milestone.”

Captain Tim Carr, Hawaii Director of the Sea Shepherd Conservation Society, eco-farmer, Permaculture design consultant

“I’ve just finished your earth-shaking ***The Survival of Civilization***, and it shook me up equally as much. You’ve both done a magnificent job. With the worldwide fulfillment of your prophecies now so graphically portrayed every night on TV, maybe this will trigger a serious interest in your message. Would to God the farmers of the world could see the light and heed your message and remineralize the soil. Then we and this sad old earth might have a chance to survive.”

George Fathman, co-author (with wife **Dorothy**)
Live Foods, Nature’s Perfect System of Health
(George and Dorothy are 92 and 87 years young)

“The Survival of Civilization contains the most important information on climate in our time. Remineralization of the soil is a first priority which is fully explained in Hamaker and Weaver’s momentous work. It is my profound desire to make this book available to everyone as soon as possible. We are already dealing with devastating impacts from climate change but there is a solution to this climatic

deterioration if we'll work together NOW as sovereign citizens of the Earth.”

Dr. John Whitman Ray, President
World Assoc. of Integrated Medicine and
Director, New Zealand Natural Healing Center

“The young Zulu on this card is born to sing and dance. Hence my tree project is designed to keep these young stars dancing ecologically. I am sure ***The Survival of Civilization*** is the book for me and my Zulu people and all peoples of the 3rd World.”

R. T. Mazibuko, South Africa

“I have just read ***The Survival of Civilization*** which I found to be a brilliant multi-disciplinary synthesis. It seems you've really gotten down to the root of the problem. For some years I've been working to identify the causes of and solutions to desertification, and I think you've hit upon the answer. Your programme of remineralization has my fullest support.”

David Mulligan, Director, Green Deserts, England

“Not too many people know it, but there have all along been two streams of science, a science of life and a science of death. The one has given us nuclear bombs, nuclear power, chemical agriculture, genetic engineering for commercial profit, biological warfare, fossil-fuel technology. The other has discovered how to make humans more alive, creative and intelligent, how to eliminate all diseases without drugs, how to make the earth more beautiful with more abundant life, how to settle disputes peaceably with mutual benefit, and apparently even clean and unlimited energy without even burning anything. This earth remineralization advocated in ***The Survival of Civilization*** strikes me as a fine example of the science of life.”

Joe Alexander, artist, author, Arkansas

“I’ve read ***The Survival of Civilization*** and am much concerned about the danger of glaciation. As a graduate of the college of Agriculture at U. C. Berkeley, I understand how our soils are depleted and how important it is to grind up rock flour fine and apply it to our agricultural lands and forests. The scientists are not doing anything. You will have to arouse the average citizen. If they realized the real danger they would rise up and demand that something be done.”

Harry F. Russell, California

“***The Survival of Civilization*** shows the essential unity of Earth’s needs and our own. Not alone does it offer an entrance to understanding the marvelous whole planetary life-support system, but provides a stunning vision of the unprecedented degree of evolutionary cooperation required of us NOW to regenerate the Biosphere and live truly. Is this not the Divine Intention that fills our hearts?”

Harold F. Lane, Director
Greenfire Consultancy, Scotland

Nature imitates herself.
A grain thrown into good ground
brings forth fruit;
a principle thrown into a good mind
brings forth fruit. Everything is created and conducted by
the same Master—the root, the branch, the fruits—
the principles, the consequences.

—Pascal

A student of geology, history, and a half-dozen other disciplines,
Hamaker discerned that when the glaciers marched across the
landscape, glacial gravel remained to provide the proper mix of
essential nutrients.

—Charles Walters

To continue any longer as blind consumers of life, without learning to
be visionary restorers of life, will likely insure an end to both
opportunities—sooner than most of us would like to look at. Yet to
fully look, in search of what is true, must surely be the first step.

—Donald A. Weaver

Message from Don Weaver Winter Solstice 2001

When we first published *The Survival of Civilization* in April, 1982, my friends the Hamakers added my preceding words (from Chapter 4) here in front to complement those of Blaise Pascal, 17th Century French philosopher and natural scientist. (From a 1994 memorial tribute to John Hamaker, Charles Walters' words exemplify a key "principle" à la Pascal, sown into the good mind of Hamaker, bearing fruit as this book.) Twenty years after writing those words, their call for us to move forward with open eyes and minds and hearts, courageously exploring for truth, still resonates within me.

That exploration (along with trying to live truthfully day by day) is still a primary motivation. So is my strong feeling of responsibility to help humanity and all life not only survive but to thrive in a conscious, balanced, truly healthy Biosphere of Interdependence. (Shall we write a new Declaration of Interdependence for this century?) That is why I helped John Hamaker convey his insights and warnings to the world until his passing in 1994, and have continued sharing them since.

When this book went out of print at the end of 1997, I began research for an Update which grew into the large companion volume, *To Love And Regenerate The Earth: Further Perspectives on The Survival of Civilization*. As you may already know, that volume and this original *The Survival of Civilization* are both available as gifts to the world at the Internet website, www.remineralize-the-earth.org. Only a few minor revisions have been made in this World Wide Web edition of *The Survival of Civilization*.

As you will read (or re-read), John Hamaker was convinced—right up until his 1994 passing at age 80—that we are in a "rapid" transition from our interglacial period to another glacial period. (Yes, he was quite fully aware of the "Global Warming" theory and its computer modeling projections.) When we were putting the book together in the early 80s, he reasoned that "rapid" meant comparable to the approximately 20-year interglacial termination phase found by the brilliant Belgian scientist G. Woillard in her studies of pollen deposits of the last interglacial. John's 30+ years of ecological studies further led him to reason that such a period probably began for us about 1975 and would therefore put us in danger of passing a "point of no return" in the 1980s and "worldwide starvation by 1990," with a consequent "death of civilization." I have made no revisions of the written timing predictions made by John, as Nature is handling that job and continually giving us more important clues about Her real-world timetables.

I thought of and still think of John as a rare kind of genius, whose sincere concern and efforts for us all were very admirable, and his reasoning and predictions *very plausible* — certainly deserving of "a fair hearing" by our endangered world. His time estimates and predictions may now appear to some readers to have been ill-

advised, and suggest that the entire Hamaker Thesis be disregarded. My view is this: John perceived a strong likelihood that we were facing a real-life “worst-case scenario” of a 20-year (or less) transition, and he thought we’d better respond in a real-life dramatic fashion commensurate with this potentially overwhelming and devastating threat. I think we can be grateful to him for his efforts to shake and wake us, and to Nature/Life for continuing to renew our collective lease on life.

I think most wise and caring now would be to *consider whether Hamaker may have been correct in his general analysis of human, ecological and climatic degeneration, even if his chronological predictions have proven somewhat inexact.* After 20 years of researching and helping publicize the Hamaker Thesis, *I think the evidence powerfully supports his general analysis, and that his chronological predictions are proving to be not so very far off.* I apologize if the book did or will frighten anyone “prematurely,” but hope you will agree that this would be far better than receiving such a warning of immense danger when it is “too late”! In any case, I suggest that not a lot of time lies between the two, and that there *is* logically such a thing as “the point of no return.” You are invited to help discover which side of that point we’re experiencing the gift of life, and what we may have opportunity to give in return, to sustain a perpetual cycle of giving and receiving. It may be “more blessed to give than receive,” yet is it not most blessed and natural of all to be *a constructive participant* in the Great Planetary Cycles of Giving and Receiving?

For much more on this and related topics, you may read the long Introduction to my separate new volume, *To Love And Regenerate The Earth: Further Perspectives on The Survival of Civilization.* I suggest you first carefully study the original *The Survival of Civilization*, then see if you have the additional time and inspiration needed to study and understand what *To Love And Regenerate The Earth* provides. I hope you will find it natural to join with me and countless others both “in search of what is true” and in “learning to be visionary restorers of life”.

For Life, Health and Regeneration,

Don Weaver

Acknowledgments

The indispensable ingredient in the publishing of this book is a 115-pound miracle named Anita. For forty years she has supported my efforts in every conceivable way, not to mention keeping me alive.

The book's editor (and I think all the editor's friends and relations), the typesetters and the printer all pitched in to get the book out in creditable condition, under the pressure of time. Time is slipping away from all of us.

My friend, the artist, did the artwork on the cover and the portrayal of the tectonic system components on page 132. I don't have to have artistic talent to see that he has added some "class" to the book.

The difficulty in writing about a multi-disciplinary subject—a synthesis of many subjects—is that the reader almost never has the background education and experience in all of the subjects that would enable him to make a reasoned evaluation of the synthesis. For this reason, it seemed advisable to include a review of previous studies in the various disciplines in the form of a few lines distilling the essence of their findings.

Of course you know I don't like to brag; but when I asked Don Weaver to take on the monumental task, I committed a "sheer stroke of genius." The reader will get a wealth of information from Don's "Perspectives"—I did.

This book exists because a small group of people thought it was worth their best efforts. I think there are many millions of people across the land who will join this attempt to insure that human progress and human life shall continue into the future.

John D. Hamaker

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