

Dr.-Ing./Princeton Christian Hechtl

Water with Naturally Dissolved Oxygen



A youth fountain with undreamt effects on
well-being, health and life preservation

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1 Introduction

If you, dear reader, even only glance over the next few pages in a few minutes, I am convinced, that your life and that of your relatives and friends will instantly change and improve.

It is not my intention to publish a book, written in scientific depth and terms, solely for the scientific community. Rather I want to briefly express the essential idea in easily understandable words so that every reader is surprised and enthusiastic about the arguments conveyed. In the chapters following the basic arguments, the scientific reasoning and discussion will increasingly be concentrated on. Thereby the reader is invited to experience the past and present development, while being orientated further in this matter. Everyone may thus reach his own opinion and decide individually to what extent one wants get involved in this progress, that affects us all.

This introductory booklet is to be expanded to a full-size book, drawing on the knowledge, competence and future research results of several colleagues but also under active participation of the readers. However, it is already foreseeable that a closing may not be reachable within the next few decades. Already much is won, if the awareness about the far-reaching effects of natural oxygen water on our health and our well-being is spread. People must know about the indigents of water, being our primary food supply, especially about the needed naturally dissolved oxygen, nature always provided with it to ensure our existence.

2 Three basic theories, respectively discoveries about oxygen water

2.1 The development of the human being is interconnected with natural oxygen water

It is undisputed that throughout the development of mankind man solely used to drink surface near water as his primary source of nourishment, approximately until the mid-20th century. This surface near water was always available as spring, mountain stream, river or lake and thus always in direct contact with the surrounding air of the atmosphere. Consequently this type of water was always aired and enriched with naturally dissolved oxygen in a natural concentration of about 4 to 14 mg oxygen per liter.

The evidence for this claim is very simple. At the beginning of the 20th century man lacked the technology to drill up to 300 meters deep into the subsoil. One did not have the powerful machines needed to rotate such a drilling device. Only in these great depth we find so called reduced water, the dissolved oxygen of which has been physically and chemically used up by the surrounding minerals during the considerable length of stay.

The observation remains, that the development of mankind and consequently our complete physiology and medical structure of the human body is inseparable interconnected with the consumption of natural oxygen water.

For simplification purposes one can imagine an aquarium in the children's room. If the ventilation-system, supplying the

oxygen by pumping air through the aquarium, is turned off over the night so the children's sleep is not disturbed by the sounds of the electric pump, one can observe that in the morning some fish are swimming close to the surface of the water gasping for air. If the air-pump is then turned back on again in the morning, the fish lively swim through the aquarium in an ordinary manner because they are sufficiently supplied with the needed fresh-air by the ventilation-system. This example is only to illustrate Henry's law which states that by ventilating air through water the oxygen is being dissolved in the water. Greatly simplified Henry's law states that in fluids gases are dissolved in higher concentrations if the pressure of the gas above the fluid is raised or the temperature of the fluid is reduced.

Further it should be noticed, that oxygen and water are our primary food supplies. Whereas the human body can function up to four weeks without food, it cannot go without water longer than 2-3 days. Without the natural oxygen in the air one dies after only 5-7 minutes. So the storage capacity of our body for water and oxygen are very limited even though both food supplies are permanently needed in great quantities in order to live – making them our primary food supplies. Since we permanently consume them in relatively great quantities, it is important to understand that for this reason the composition of them is very important. Due to high consumption quantities small deviations in composition can make a great difference.

Referring to the historical property of water, being naturally enriched with natural oxygen, it is obvious that any drinking water must be clean and fresh. This is clear to anyone and therefore not further discussed or mentioned. It is an undisputed achievement of modern times that clean and fresh

water is available to so many millions of people. Even though roughly 80% of the world population do not have this privilege easily available or at all. However, this achievement partially was reached at the unnecessary expense of removing the natural oxygen from the water. The consequences cannot be neglected.

2.2 Discoveries

Worldwide all water, before filled in bottles, is being technically cleared of all dissolved gases through an expensive procedure. Thereby also the naturally dissolved oxygen is being radically removed. This gas-clearing is being done by reducing the specific partial pressure of the gases above the fluid by means of vacuum pumps. This process is called vacuum pump-clearing. The gas-clearing is done for the following reason: Carbon dioxide, added later in the production-process, is easier dissolvable in a gas-cleared water and carbon dioxide free water has a longer shelf life if cleared of other gases. Carbon dioxide in mineral water is said to improve the taste, but one main reason of its use is also the purpose of a longer shelf life. In nature carbon dioxide is found in relatively small quantities – in the natural air we breathe carbon dioxide amounts to 0,03%. In the natural cycle carbon dioxide is being consumed by plants (photosynthesis), which produce oxygen using the sun's light. In water carbon dioxide partly converts to carbon acid. An overpressured (glass) bottle only starts to bubble with carbon dioxide when opened, for the pressure of the water in the bottle then drops from about 3 atmospheres to the natural 1 atmospheric pressure.

It is generally known, that carbon dioxide is our environmental problem no. 1. Being a greenhouse gas, it contributes to the global temperature rise and climate change. However, dissolved in water it plays a minor role in this respect, since combustion engines and heating plants/-systems exhaust incomparable larger quantities. The mature and responsible reader can nevertheless easily recognize the basic idea in this context: Nature has intended, that we drink water with

naturally dissolved oxygen. Our physiology is build according to this idea.

Besides the public water supply there is a world-wide water market, where mineral, table and tap water is being bottled and sold in vessels, mostly in glass- and plastic bottles. Common thinking about this context leads to the conviction, that it may very well make sense to continue consuming beverages in the usual way, that is all waters as well as beer, wine, coffee, tea and so on. It is however especially wise, to drink in addition at least once or twice a day the natural oxygen water, in order to keep the natural chemistry of our digestive system balanced. Chemical processes without oxygen are called anaerobic and are characterized as rottenness processes. Very carefully expressed it is long overdue, that this context is being brought to the awareness of the consumer, not through commercials but explanation and education. I invite all readers to participate in some way at this ethical task to inform the public. This can be done via the consumers behavior and the included health precaution, especially in the presence of friends and family.

In Germany it is prohibited by law to advertise about the apparent connection between oxygen water and health, well-being and existence preservation. There is a razor-sharp differentiation between food-law and pharmaceutical-law. This "line in the sand" is heavily and closely guarded by governmental as well as self-styled control authorities. In view of current outrageous events in this context it is almost irrelevant, that this leads to distortion of market competition and discrimination of German citizens. Abroad one is not restricted in advertising with such obvious observations. Only under the unimpeachable freedom of research and science it is possible to state the obvious in this country. This freedom is

used to inform the public and bring to the attention of the people the full extent of the ethical obligation.

2.3 The natural oxygen water as the logical consequence to recover the state of balance in inner medicine, as health preservation, to improve the well-being and a sane life expectancy.

I have developed several procedures, protected by patent law, where the natural oxygen is preserved in the original, previously unused, spring-water and further enriched naturally beyond that level to the threefold amount. Fortunately this natural oxygen water can be produced in a moderate middle-class price range, thus making it available as a health precaution for everyone, especially for every family. In the foreground stands the effort, to open up a way back to nature in the area of clean, fresh and healthy water, being our primary food supply. Nature has intended us to drink, water with naturally dissolved oxygen. One should at least preserve the naturally dissolved oxygen in water, but also not enrich it too much. Processed water or water polluted through farming-fertilizers, pharmaceutical ingredients, food chemistry and purification/sewage plants cannot be used for the production of natural oxygen water. Besides, this type of water could not be utilized without further treatment, due to its reduced capability to dissolve oxygen. The air used for the above mentioned enrichment processes is fresh, cleaned air which has been stripped of any pollutants.

Everyone living together with pets knows, that cat, dog or horse prefer drinking from water puddles, even though they have alternatives. "Animals have preserved their instinct for natural oxygen water and also humans have a slight disposition for it" (Prof. Elstner, Member of the Munich Oxygen Club, in his

book "The Oxygen"). This means, that man ages ago could differentiate between good and bad water by its oxygen saturation through his biomechanical receptors.

Consumers will instantly produce their own positive experiences with oxygen water, and I intend to quote these experiences in the next editions of this book, simultaneously with sound research results. Therefore I am partly relying on experience-reports of my fellow citizens and readers. So, I kindly request to communicate these reports to my address, shown at the end of this booklet. With my colleague Prof. Ionesco I am carrying out interesting experiments, where an almost instant improvement of the blood composition is reproducibly measured after the consumption of natural oxygen water.

One has to differentiate this case from the usage of medical-technical oxygen and high over saturation/concentration of oxygen in water. I have discovered about 20 mg per liter as a secure upper limiting value and reached an understanding about it with the authorities for a day-to-day use. Usage of medical-technical oxygen and over dosage of up to 50 mg oxygen per liter inevitably initiates and focuses concentration on difficult discussions about the so called free radicals and their danger of causing cancer. Even if this topic could be dealt with in a controversial manner, being an experienced and a lifelong water engineer in public water supply I feel compelled to enter the concept of concern in these considerations. This concern on its own should be sufficient reason to prevent the consumption of medical-technical oxygen in water, especially the over dosage on a daily use basis. Excluded from this concern are medically supervised therapeutical treatments, where a higher dosage may be useful and necessary.

In the past decades it was proved that many clinical pictures and diseases are in direct connection with oxygen problems. Numerous publications show that life-essential oxygen in its atmospheric form is almost not reactive at all. To enter combinations with other biomolecules it must first be activated. During activation however, other oxygen types are produced, which not only have the desired but also unwanted side effects. The positive biological usage of oxygen is materialized in a very small bandwidth between necessity and unwanted over dosage.

Therefore, I recommend the natural use in drinking water and the natural enrichment, not over dosage, as a daily solution. Consequently the mountain stream in the bottle is the best choice. This natural oxygen water – industrially filled up in bottles – is a new product world wide. The natural oxygen water as such is being produced and provided by nature since humans exist. It serves us – aerobic beings – as a foundation for our existence and our primary source of food. It is for this reason, why I enthusiastically recommend and support the broad deployment of natural oxygen in its natural limits. However it is not at first my intention to thus improve our physical oxygen balance – for this purpose we have lungs and skin. For the exchange of gas our lung has a very large specific area in the dimension of a football field. The natural oxygen water on the other hand enables us to keep the inner chemistry of our digestive system in balance – as it used to be the case up to the mit-20th century.

The reader may reach his own judgment about this matter, considering that man reached existence on this planet with a bodily temperature of exactly 37°C. Deviations from this optimum are felt as extremely unpleasant. At temperatures

above 42°C proteins start to coagulate and life itself is threatened. The lower limit is even more problematic. We breath a gas mixture which we call air. This air is made up of about 78% nitrogen, 21% oxygen and 1% inert gases. Minor deviations in the oxygen percentage produce considerable complications for us. Mountaineers and air plane pilots pay attention to this as well as medical doctors. After breathing pure oxygen for three hours or receiving no oxygen at all for only very few (5-8) minutes one dies. The addiction of sniffing oxygen leads to severe lung damage (lung emphysema). Nobody would dare to manipulate our natural boundaries mentioned above. Therefore we must understand clearly, that according to our physiological and genetic blueprint naturally dissolved oxygen has to be preserved in our drinking water, this being our primary food supply.

My procedures, to enrich the water with natural oxygen through air-ventilation, have always been practiced by nature in mountain streams, water falls, through wind and waves at the surface of lakes. I have oriented my procedures on natures way to do this and use specially cleaned fresh-air for this purpose. The medical-technical method of over dosage only makes sense if defined therapeutical successes are to be realized. With enthusiasm I will together with my readers produce new editions of this booklet and research deeper into the phenomena of water. With all respect to the so called esoteric surroundings, I will as a scientist and engineer solely and without exception work on the basis of measurable facts. Hypothesis which cannot be supported by measurements through existing or to be developed instruments or experiments must not be automatically excluded from our reality but will however remain in a preliminary status of an scientifically unproven claim.

3 Economic basics about participation options

If one is enthusiastic about a sound and ethnically high standing idea, then there are in principle two possibilities pursue the idea. One can enter this idea into the world through a publication for example and waits for it to succeed by itself. It is safe to assume, that a good and sound idea will find its way and cannot be stopped. I am convinced, that the idea about natural oxygen water as such is unstoppable and will develop world wide relatively fast. The other possibility lies in the effort, driven by human impatience, to try to accelerate the development a little. Creating more than publications one can pursue this possibility by further pushing the cause actively, say in the media and similar channels. The technical term is called marketing nowadays. To avoid undesirable developments, like the over dosage with medical-technical oxygen if not for supervised therapeutical purposes, I have chosen the latter possibility and therefore initiated the creation of the company "World-Wide-Oxygen-Water KG a.A.". In order to secure the capital investments, I have developed insurance systems which offer the investor 100% coverage against capital loss. For this purpose there is a stock option brochure available for interested parties and investors: www.world-wide-oxygen-water.com.

4 Preliminary observations to health effects, well-being and prolongation of a healthy life expectancy

In the development of this book more detailed documents from international publications will be presented as well as the research results which are further produced at this time from my colleagues, Prof. Ionesco and myself. These informations will also be published on several conventions. Additionally reports of readers and consumers together with their statistical analysis will be made public in order to make clear the broadness of this revolution and extension/enrichment of the water market.

4.1 Personal experience with the natural oxygen water

Everyone drinking the natural oxygen water will just like me at once realize, that kidney activity is considerable stimulated. One can in fact measure the time until one feels the need to urinate after drinking natural oxygen water. This is of great importance, since drinking not enough (insufficient fluid supply) has reached alarming and even disease like proportions in industrialized populations. This new disease is not as such recognized early enough for the negative symptoms only materialize in a insidious manner over a long period of time. Kidney failure, dialysis patients, kidney stones and the like have alarmingly increased in statistical numbers. Despite all calls for organ donors there are about 6000 kidneys missing in Germany alone per year for transplantation purposes. Furthermore it has been proved, that the aging process or to say

it out loud, senility, are very much interconnected with insufficient fluid supply. In this context one should remember, that the percentage of bodily water drops from 80% in a newborn to about 60% in a 30-year old and further to 50% in a 50-year old.

4.2 Natural Taste

Not only is it my concern to reach an awareness, that humans in their whole development always drank surface near and therefore with natural oxygen enriched water but also want to stress the importance of natural oxygen water for the inner chemistry of our digestive system. Beyond that there are obvious regulative mechanisms via so called biomechanical receptors, that are playing an important role. Prof. Elstner has documented these phenomena in his book "The oxygen". We all know that taste and smell are recognized and sensed through geometric chemical receptors. These recognition patterns are deeply anchored in the long-term memory of the human being. This knowledge is scientifically secured and proven. It very much seems to be the case, that similar to pets that favor natural oxygen water also man in the past differentiated between good and bad water via its dissolved oxygen percentage. It is therefore not surprising, that some tendency to consume oxygen water may originate from this assumption. Modern man who consumes natural oxygen water very soon does not want to miss this type of water. Regardless of esoteric or placebo effects this observation is based strictly on biomechanics and biochemistry. According to M.D. Ivan Engler the resorption of oxygen in the water starts already in the mucous membrane beginning in the mouth while drinking.

If oxygen water is poured over the back of the hand, one can observe, that oxygen sparkles disappear very fast in contrast of the longer lasting carbon dioxide sparkles. If one pours oxygen water into a glass the oxygen sparkles keep growing on the glass wall until the lifting forces surpass adhesion. Making these observations associations with oxygen water are frequent with many consumers. Cognitive memories are known to be surpassed by long-term memories which incorporate taste and smell induced over biomechanical receptors.

4.3 Skin and natural oxygen water

Several personal reports have been submitted to me, of people who are desperately fighting against acne and similar skin diseases. Nothing seems to help. Prof. Ionesco operates a large clinical institution in lower Bavaria, Germany, that deals with such problems. Physiological blood analysis, which we conducted together, have reproducibly shown a considerable improvement of the blood composition. We will together report on these findings on medical conventions. Additionally I have several reports before me indicating stunning relief in difficult cases of acne and skin scarp as long as consumption of natural oxygen water continued.

4.4 Depression and natural oxygen water

It is frightening to see how many, especially young people, are victims of depression. Medicine differentiates approximately 50 types of depressions. It is essentially unclear where and how these depressions originate and therefore science cannot offer potent and lasting medicine against its causes. There seems to be some problem in the metabolism of the brains. But it is unclear whether this is a cause or a symptom. Despite positive

reports it is premature to draw any conclusions, but it may be assumed that the beneficial effects of natural oxygen water on the blood composition work in favor of the body as a whole without any negative side effects.

4.5 Summary of further medical observations

It seems to become clear, that consumption of natural oxygen water have at least the following positive effects:

- It supports the microcirculation of the blood
- It is antibacterial and antiviral
- It supports the regeneration of tissue
- It participates in detoxication processes
- It regulates blood pressure
- It improves metabolism
- It raises the energy supply of cells
- It improves physical fitness
- It eases radiation damage (sunburn, radiation therapy, radiation disease, radioactive accidents)
- It reduces the negative effects of air pollution (photo oxidants, NO_x, O₃, PAN, SO₂, HSO₅, diesel soot, asbestos particles, cigarette smoke etc.)
- It affects chronic inflammation conditions and disease-like tissue changes (rheumatism, arthritis, emphysema, Behçet's disease, cancer, diabetes etc.)
- It affects acute inflammation conditions (burns, infections, pulmonary edema, cerebral edema)
- It slows aging processes (cataract, lipofuscin)
- It is interconnecting with vitamin deficiencies (A, C, E)

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- It reduces negative side effects of drugs (alcohol, morphine, pain reducers), toxins and chemicals, as well as shock syndrome and hypoxia.

This list could be continued. Publications about medical aspects and the role of reactive oxygen in pathological processes are uncounted and barely overlookable. Most publications must be revised for the case of naturally dissolved oxygen water. Nevertheless it is clear, that our natural physical blueprint compels us to respect and live within the natural oxygen limits regarding the air we breathe as well as the water we drink. Too high and too low concentrations are both harming our health.

From the medical point of view the per-oral oxygen therapy could battle several disorders:

- blood circulation disorders
- respiratory tract diseases
- cardiac and tissue function disorders
- hyperventilation
- disorders of vesicular breathing and anemia
- enzyme deficiencies
- micro circulation disorders
- disturbed energy supply and production of the cell
- migraine
- gastro-intestinal disorders
- immune system deficiencies
- tiredness
- low performance conditions
- psycho-vegetative disorders

For further reading I recommend the publications of Prof. Dr. Pakdamann and M.D. Gieseke's summaries. Other references are offered by Sirotkin (July 7th 1968), the American journal of psychiatry no. 125 and reports of Karpenko in the journals "Urologica, Nephrologica" of November 1968. Therein the well-being is at the heart of the matter.

It must be noticed that the medical science still has far to go in order to produce the broad and detailed studies needed. Many theoretical basics in this field still have to be discovered or confirmed. We are for sure only at the beginning. I expect there are several thousand professional questions which have to be answered and consider up to 5 decades as a reasonable time frame for this challenge.

It is however a undisputable fact that during his long development man always consumed natural oxygen water nature supplied us with. It is also undisputable that we are built to breathe not only air in its original natural composition but also to drink clean natural water with its originally dissolved oxygen. Nature has intended for us to drink natural oxygen water. Man can last for several weeks without food, but only a few minutes without oxygen. Of course we need the oxygen in our lungs and blood circulation. But it is just as important that it is available in its natural form via natural oxygen water in our digestive system, where up to 80% of our immune system is anchored.

We all are aware that sufficient provision of clean water supply, and not oil, will be the primary future challenge for mankind in order to survive. The television station CNN regularly reports that clean and fresh water supply can not be taken for granted by over 80% of the worlds population, but

that it is a daily struggle for this percentage to acquirer it. The wars of the future will be fought about clean and fresh water which is fast becoming the most valuable raw material.

I want to remind the industrialized nations of their primary challenge to secure sufficient supply of clean and fresh water for their citizens. There is a lot to be done. Furthermore the preservation of water reserves must be recognized as the highest priority.

5 Additional explanation concerning natural oxygen.

5.1 Demarcation of natural from medical-technical oxygen

One has to keep in mind that at first sight in its molecular state there is only one type of oxygen. In his book: "The Oxygen - Biochemistry, Biology, Medicine" Prof. Elstner distinguishes many kinds of oxygen and comments them. It would lead beyond the frame of this booklet to deal with his detailed comments in depth. I only want to state clearly that the medical and technical bottled oxygen, only differ in so far, as the medical field demands a higher degree of purity. This means that contrary to the technical usage gas cylinders have to be extra cleansed after each use in the medical sector.

When I speak of natural oxygen, I mean that for purposes of enriching water neither medical nor technical oxygen should be used, except if defined therapeutical intentions are pursued. I insist that for the natural oxygen enrichment of water the same raw material be used as nature itself does and always did, which is clean and fresh air.

In our solar system, according to current knowledge, only our wonderful blue planet earth offers the conditions for organic life. One elementary foundation of life on this blue planet is its unique atmosphere, which contains molecular oxygen to a considerable extent, contrary to the other planets of our solar system. Our neighbouring planets Venus and Mars hold carbon-dioxide in large quantities in their atmospheric composition. On earth the atmospheric gas cover consists of

78% nitrogen, 21% oxygen and 1% other gases. Carbon dioxide measures 0,03% which is especially important. Venus has 95,3 % and Mars 96,4 % of carbon dioxide. There is only 0,0096 % oxygen on Venus and 0,13 % on Mars.

Without going into details every person can see clearly that in nature our water is being aired by a gas mixture – which we call air – where significantly also other gases are being dissolved – not only oxygen. In this natural procedure oxygen is mixed and dissolved with other gases due to the different physical solubility of gases.

In our primary food supply, water, we should never give up this natural oxygen. For every day use water should not be enriched with medical–technical oxygen, especially not beyond a reasonable amount. It is self explanatory that in the case of the essential element oxygen man should not go beyond the natural boundaries. Other reflections are valid for therapeutical use – in respect to other goals and considerations.

5.2 Differences between natural and medical-technical oxygen water.

The distinction between natural and medical-technical oxygen waters is quite easy. In the case of treating illnesses and achieving a defined therapeutical success the use of medical-technical oxygen for the enrichment of water in higher doses might be advisable. Scientific knowledge in this respect is, however, rather limited. Certain dangers cannot be excluded. Usage of high concentration technical-medical oxygen water – from my point of view – should only be conducted under medical observation.

In contrast to this the natural method and the natural border data are safe for even daily use in any case. Man has always been consuming this naturally available natural oxygen water until the mid-20th century. In presence of this historical view I emphasize again that it is obvious that any drinking water must be clean and fresh. I want to stress in this context explicitly that the concentration of the natural oxygen in the water is kept within the "natural" limits. In this case negative side effects can be excluded. On the contrary one may speculate on potential negative side effects if man is denied this natural oxygen water, since our natural blueprint and genetic orientation demands it. We are built this way.

Devices for home use are available reaching higher oxygen doses, like for instance 50 mg and more oxygen per litre water. A special type of a shaking device, costing several hundred dollars, has to be placed into the refrigerator for this purpose. For several thousand dollars and more there are devices available which produce at the touch of a button water enriched with medical-technical oxygen additionally flavoured with various fruit concentrates or tea. These home devices are very problematic for private use. There is no supervision or possibility of control. Insufficient or outdated information of the owner may lead to misuse and poses a danger. These devices are even prohibited in many countries in the world and also in most states in Germany. It is my judgement that by itself the concept of concern alone advises us not to tamper with the natural boundaries beyond a reasonable amount, as I already said earlier.

The mineral water law in Germany prohibits the addition of oxygen to mineral water. The natural airing, however, is not prohibitable since in nature water has always been enriched

and regenerated with natural oxygen. Last not least one should bear in mind that these household appliances for mineral water use ordinary tap water. Often enough this water is very good, but at times also polluted with remains of agriculture, pharmacy and food chemistry.

A device that naturally enriches water with natural oxygen according to my patented procedures is in testing phase and should reach the market soon. The reader can always reach up-to-date information through the website www.world-wide-oxygen-water.com.

6 Preliminary final remarks

6.1 Clarification

It is not my intention to considerably raise our oxygen balance by drinking natural oxygen water although there are quite a few positive reports in this respect. Nowadays the partial pressure of oxygen in blood can be measured with external measuring devices. This pressure rises significantly when drinking oxygen water. It is obvious that primarily the lungs and the skin, our largest organ, are responsible for our oxygen supply. By doing very little physical exercise our body inhales more oxygen than one can induce by drinking oxygen water. This is not the primary purpose of natural oxygen water.

Natural oxygen water is necessary for our health and well-being by maintaining the balanced chemistry of the internal medicine, starting with the stomach and the digestive systems. Oxygen plays an important part already when you eat food. Chemical processes without oxygen are called anaerobic. Bearing in mind that up to 80% of the immune system are scientifically known to be located in the stomach and intestines you will realize how important the consumption of natural oxygen water is. Even a small difference can cause a large effect.

Often enough a glass of tap water is sufficient. The oxygen content, however, is rather low there, because the existing oxygen is used up for the preservation of the intended internal crusting of water-pipes in order to prevent rusting. Being at the end of a water pipeline your water will most likely not contain much oxygen anymore. Processed Water treated for sewage-components and remains of pollutants is not desirable.

Despite all quality checks tap water often contains too many remains from agriculture, pharmacy and food chemistry. Last not least politics will have to play its part in changing the system. We can no longer accept that in the densely populated areas of Europe and America pure agricultural residues are spread untreated on agricultural fields. Too many waste products enter our food chain this way and are brought into the ground water through the pore-volume of the soil. This globally ruins the communal water supply for future generations. We ought to introduce sewage plants for agricultural waste like we have them for human waste products and reduce the unreasonable agricultural overproduction.

I was asked to make a short statement concerning carbon-dioxide appliances for private households. These devices are cheap. They spare you the carrying of boxes of mineral water bottles and probably also money. Of course you can use them without any problem. You should, however, keep in mind three things:

- a. Despite the generally good quality of our tap water it still contains many basic pollutants from agriculture, pharmacy and chemistry as well as aerosol (from air pollution). Pharmaceutical pollution has partially reached dramatic dimensions, because the remains after sewage plants reaches up to 4%.
- b. Carbon dioxide will immediately supersede the probably still present low concentration of natural oxygen. According to Henry's law carbon dioxide is much easier dissolved in water than oxygen. This means that at least once every day you should do without carbon dioxide and drink plain tap water.

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- c. If you want to avoid all these problems you had better drink bottled water, but please drink water with naturally dissolved oxygen for your own good. Here we only use the technology of nature itself and the water is only enriched with up to 20mg oxygen per liter. The consumer ought to be watchful that natural oxygen is used and avoid the medical-technical oxygen. It is quite simple for the consumer to distinguish between the two, because it is technically not at all easy to enrich water with naturally dissolved oxygen beyond 20-30 mg per liter or even up to 50-80 mg per liter. The upper oxygen limit given to us by nature itself should not be exceeded carelessly. If exceeded then only for defined therapeutic purposes during short periods and under medical observation.

Concerning this sector it is up to politicians to act. With almost 30,000 illnesses on the internal medical sector whose causes are often unknown – and without an effective cure one ought to recommend "natural oxygen water" as one possible remedy or at least a health-support free of negative side effects. Taking into account the rising costs in the field of public health service this claim is more than justified. Be reminded that I am not speaking of a "health water", but of our primary daily food supply. Well-being and provision for health, fitness and the like are at the heart of the matter.

6.2 Preliminary bibliography

For the time being you only have this small booklet. With your help it will become a book in the foreseeable future, which will hopefully answer the most important questions according to the

present-day knowledge. We all know that the scientist, while trying to find answers to his problems will come across new questions.

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Further information will be regular updated and published on the website:

www.world-wide-oxygen-water.com

6.3 Authors Address

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Contents:

It is undisputed that throughout the development of mankind man solely used to drink surface near water as his primary source of nourishment. This water was always aired by earth's atmosphere. Consequently the human physiology is absolutely dependent to drink water with naturally dissolved oxygen. Worldwide all water, before filled in bottles, is being technically cleared of all dissolved gases. The naturally dissolved oxygen is being radically removed and replaced with carbon dioxide. Therefore I have developed a procedure protected by patent law, which preserves and further enriches the concentration of naturally dissolved oxygen in water. The benefits for our physical health, well-being and sane life expectancy are enormous and are being preliminarily described in this booklet.



The Author:

Dr.-Ing./Princeton Christian Hecht is a university professor and international expert in the field of water research and water supply. He spent most of his life making his findings a reality in public water supply. During the development of water production out of tectonic rupture zones he came up with the extension of his idea to make clear and fresh natural oxygen water available for consumers in bottles world wide.