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Documentation on **Scalar Wave Technology**

for the Transmission of Scalar Waves
using the Experimental-Kit

by

Professor Dr.-Ing. Konstantin Meyl

(in cooperation with other authors and
translations helped by John Cliss, Steve Bublies, and others)

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for the Transmission of Scalar waves using the
Experimental-Kit and Scalar Wave Transporter

by Professor Dr.-Ing. Konstantin Meyl

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- by Konstantin Meyl.-

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I.

Preface to the Documentation 1

When there is talk of "free energy", when efficiencies of greater than one hundred per cent are promised, or even when inventors emerge with perfect blueprints for a perpetual motion machine, any doubts are justified. All too often faulty power measurements mislead, or an energy source is being drawn unnoticed. Responsible scientists therefore accept such statements only after carrying out their own tests to establish whether they can always reproduce the measurements with the instruments familiar to them. The Experimental-Kit shall take account of this fact.

All sceptics can and should reproduce my experiments. They should not learn about results in the media, but should gain their own experience of electric scalar wave transmission themselves. A hundred years ago Nikola Tesla performed the same experiments, but with very high voltages and controlled spark gaps. Because even at that time more energy arrived at the receiver than the transmitter had sent, Tesla described the transmitting station as a "magnifying transmitter" or "boosting transmitter".

Unfortunately his system in Colorado Springs was too complex and expensive for any university to be able to afford it. Consequently the results remained unconfirmed.

No scientist in the world has the right to challenge the results obtained by Tesla unless he repeats the experiments on a 1:1 basis and can provide appropriate proof of his findings. That has not been done up to now.

It will not be possible to provide this negative proof and *ignorance is not an accepted scientific methodology!*

1. Remarks on the Kit in general

The experiments for scalar wave transmission could be acquired from 2000 to 2014 as a demonstration kit and in an expanded version as a testing kit. As a replacement for both a version with a digital generator is available from 2014. Each of the kits allow all Tesla's statements to be verified. Thanks to modern technology, the practical effort is also reduced significantly. Nowadays the entire kit fits into a suitcase.

Many parameters determine the functionality and natural resonance of a scalar wave transmission, e.g. wire length, wire thickness, insulation, winding direction and coil diameter. Only by choosing identical parameters can perfect reproducibility of the results be guaranteed. Realising this, I have refrained from publishing a manual of instructions, since this would cause the ability to reproduce the experimental results to depend solely on the skill of the individual hobbyist. The credibility of the results would suffer. Ultimately this is about the discovery and proof of a new physical principle (and not about teaching amateurs).

All the parts that are required for operation are included inside the aluminium carry case alongside the Tesla coils. This is not only for practical purposes. If an operator wants to do without the function generator, for example, because he has already a suitable one available which operates up to 20 MHz, he should ensure that it is able to provide sufficient drive current. If all experimenters use the same function generator, all others ought to be able to reproduce the same results.

Thankfully some experimenters have sent their test reports on scalar wave transmission to the publisher. These are included from the 4th edition of the documentation onwards and so are available to other researchers. As many suggestions are included, this greatly benefits all those concerned with the transmission of electrical scalar waves.

It has been shown that the number of possible experiments is virtually unlimited. This is a new, still largely unexplored type of wave propagation, so there is still much to discover. *What would a discovery be worth if only the discoverer knew about it?*

Although originally I was the author of this book, from the 4th edition onwards I rank alongside the other authors whose names are given if they have agreed to being mentioned. As editor, I was left with the task of sorting the contributions according to the significant technical, physical and biological characteristics of scalar waves, and to comment where appropriate.

2. Notes on the experimental kit

A part of the inventory of the Experimental-Kit has always been a frequency counter and other flat coils (type C with twice the wire length). The function generator can also be adjusted for a wider range of different waveforms (from 2014 with a digital DDS function generator). It is assumed that mainly physicists, engineers and those experienced in metrology will be interested in the Experimental-Kit. They can of course reproduce all the experiments given for the Demo-Kit and will receive the same documentation. In addition, the kit offers all the settings they would expect from other laboratory equipment. Test sockets have been specially included for metrological procedures, for example to measure currents and voltages.

Nevertheless, the set is even suitable for those with no experience in metrology. Purchasers include doctors, lawyers, therapists, environmentalists, teachers, politicians and journalists - in short, it is intended for anyone who wants to verify or to convince themselves or others of the existence of electrical scalar waves. In the case of the digital set the optimal setting can be adjusted and stored, so that after each power-up the demonstration can be started immediately, just as we were so accustomed to the old analog sets.

It is assumed that this set is purchased primarily for personal study and demonstration purposes. Nevertheless, it is conceivable that some experiments will go further than the specified repertoire, for example in order to study biological reactions or medical influences.

The coils (of type A (7Mhz), B (14 MHz) and C (3.5 MHz)) and the ball electrodes as antennas may possibly also be ordered separately (in the shop www.etzs.de "Kit & Devices" - "Components"), e.g. for experiments with several receivers or with the coil B for higher frequencies. In this case, a suitable function generator would be necessary.

3. Aspects of experimental research

Anyone infected by research fever will continue to build and tinker with their own equipment and the coils they have wound themselves until they have found out everything their inquiring mind wants to know. For them, my set can only provide a first impetus. I am hoping for constructive and close cooperation from these experimenters, and from all experimenters in general. Only when all of those interested in progress pull in the same direction can ignorance of facts a century old and the arrogance of established science be overcome with the aspirational goal of entering into an environmentally friendly era based on scalar wave technology.

Physical proof is not complete until the results of a theoretical derivation are confirmed by practical measurements. Certainly some auxiliary statements of the measurements could be given in individual cases if each experiment were considered in isolation, and some people are satisfied with this.

The near-field description, for example, is one such auxiliary statement. Only if the experiment still works at ten times the near-field distance will the expert start to ponder.

The major revelation is evidently hidden when working with auxiliary statements. A theory is needed which includes all the aspects concerning scalar waves and reproduces all the properties accurately and in full.

Such a field theory had not so far existed, so I was forced to look for a suitable one. The Wave Equation to which I always refer [1, see also page 239] provides the right answer. It originally comes from D'Alembert, initially formulated one-dimensionally in terms of time and space, and moulded into its present form by his student Laplace, using the three-dimensional Laplace operator. If this is broken down according to the rules of vector analysis, a field pointer is found to diverge, which in mathematical terms represents a scalar and gives the scalar wave its name. Now the Wave Equation also requires a gradient to the scalar which, mathematically, is a vector.

The scalar wave therefore propagates directed like any wave. Everyone is familiar with this property of sound waves. Nonetheless, some confusing reports on the Internet assume that a scalar wave is undirected in order to go on to prove *that what is not there does not exist*.

Terms such as "scalar field" are misleading, since they more or less describe the opposite. That is why it is so important to apply the laws of physics, because *laws are there to be respected*.

Within the chain of evidence the experiments described here form the experimental section in proof of the existence of electrical scalar waves, because only the correspondence of theory and practice counts as real proof.

4. Relevant aspects of vortex physics

The most important new component of the field description is the vortex of the electric field discovered by me in 1990 which I call, in accordance with fluid mechanics, the "potential vortex" [2]. These field vortexes are capable of carrying a pulse, will spread as a longitudinal shock wave in space and possess all the properties of a scalar wave. From the perspective of my books, this documentation is an important practical addendum. Conversely, the experimenter will surely find my reference books a great help. The book entitled "Scalar Wave Transponder" is particularly recommended.

Before I published this and other books and articles, diverse aspects of my work were recorded in a collection of material in the three-part series of books on electromagnetic environmental compatibility (available under the title "Scalar Waves" from the shop at www.etzs.de). The basics of vortex physics are not available in any other textbook, but are presented in the first part of the book, with an examination of the causes, phenomena and scientific consequences of the potential vortex of the electric field.

The second book in the series includes a section on free energy and the interaction of neutrinos. It is mainly about the design details of the technical side of scalar wave energy and questions concerning its practical application. The operation of the Tesla coil previously mentioned in the first part is developed in more detail in the second part. The field theory from the first part is also developed further and considered in the context of existing constructions.

5. Structure of the documentation

The derivation of scalar waves from the Wave Equation which is key to understanding the experiment and a discussion of the properties and the consequences for information technology can be found in the third part of the book series that was not published until two years after the documentation. The reason for this was that until the 3rd edition the relevant chapters had been included in the documentation. This no longer matters in the case of the 4th edition onwards because the 3rd part of the collection is now available [3].

I have also held some hands-on lectures in which I have demonstrated the scalar wave transmission path. At the INET conference in Bregenz 2000, the journalist Inge Schneider took the trouble to make a typescript of my lecture. In this way, something could be captured of the live atmosphere and the crackling tension in the room, and I have decided to include this essay (in the "Review" chapter on page 250 of the German issue, not translated).

Naturally the instructions for the experiments form the core of this documentation and at the same time are intended to serve as patterns for further descriptions of experiments.

I now wish you every success in carrying out the experiments yourself and hope you achieve high efficiencies.

INDEL-Publishing Department

Konstantin Meyl

Villingen, June 2000 (in German)

www.meyl.eu

and 2014 in English translation

6. Preface to the 6th edition

New discoveries usually take decades until they finally find their way into practical use. Considering that I first began in 1990 with the publication of my work to the discovery of potential vortexes and to the practical use of scalar waves, I've already come quite far; so tell me friends in their own estimation.

The world of electronics, however, is changing much faster than that of physics. Thus the Experimental-Kit is offered virtually unchanged since 2000. 14 years is an eternity for the components used, since production of the analog function generator chip was stopped by the manufacturer. We were forced to modernize the technology.

From the year 2014 a digital DDS signal generator replaces the analog technology yet originally made by hand. It is a purchased part that is rebuilt at our premises for the operation of the extremely low impedance flat coils and extended. The frequency signal is crystal stable, up to 8 MHz adjustable and storable. For the connection of the flat coils (of type A or C) is a dedicated connection available.

The coils (type B) with a resonance frequency of about 14 MHz are unfortunately not operable anymore and hence no longer included in the suitcase. But they will further on be offered in the shop (of www.meyl.eu) for those who use their own generators, which allow higher frequencies and have low enough impedance.

Besides that the experimental suitcase and particularly the coils have remained the same. This is particularly important in terms of reproducibility and comparability of results.

Almost unnoticed this documentation has become a volume 1. The planned volume 2 will be devoted to medicine and the Scalar Wave Device, as the "Documentation 2 for Scalar Wave Medicine". This is a significant aspect which is mentioned in the Documentation 1 for Scalar Wave Technology only marginally, but builds on in direct connection.

Villingen, May 2014
(The 6th edition in German, 1st edition in English)

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