

ANTENTOP

ANTENTOP 01 2006 # 008

ANTENTOP is **FREE** e-magazine devoted to **ANTENna's**
Theory,
1-2006 **Operation, and**
Practice

Edited by hams for hams

In the Issue:
Antennas Theory!

Practical design of HF
Antennas!

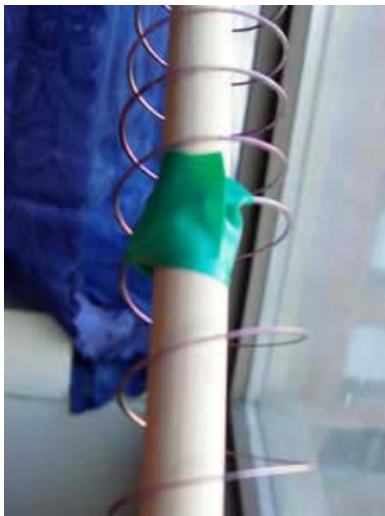
Home brew Technique!

Propagation!

QRP!

And More....

Helical Antenna



EDITORIAL:

Well, my friends, new ANTENTOP – 01 -2006 come in! ANTENTOP is just authors' opinions in the world of amateur radio. I do not correct and re-edit your articles, the articles are printed "as are". A little note, I am not a native English, so, of course, there are some sentence and grammatical mistakes there... Please, be indulgent!

ANTENTOP 01 –2006 contains antenna articles, and several historical articles. Hope, it will be interesting for you.

Our pages are opened for all amateurs, so, you are welcome always, both as a reader as a writer.

73! Igor Grigorov, VA3ZNW

ex: RK3ZK, UA3-117-386,
UA3ZNW, UA3ZNW/UA1N, UZ3ZK
op: UK3ZAM, UK5LAP,
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Welcome to ANTENTOP, FREE e - magazine!

ANTENTOP is **FREE e- magazine**, made in **PDF**, devoted to antennas and amateur radio. Everyone may share his experience with others hams on the pages. Your opinions and articles are published without any changes, as I know, every your word has the mean.

Every issue of ANTENTOP is going to have 100 pages and this one will be paste in whole on the site. Preview's files will be removed in this case. I do not know what a term for one issue will need, may be 8-10 month or so. A whole issue of ANTENTOP hold nearly 10 MB.

A little note, I am not a native English, so, of course, there are some sentence and grammatical mistakes there... Please, be indulgent!

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I do not know, why the owners do not response me. Are they still alive? Do their companies are a bankrupt? Or do they move anywhere? Where they are in the end?

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73! **Igor Grigorov**, VA3ZNW

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op: UK3ZAM, UK5LAP, EN1NWB, EN5QRP, EN100GM

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Preview: Some articles from "cooking" issue will be pasted for preview on this site, others no. Because, as I think, it must be something mysterious in every issue.

Publishing: If you have something for share with your friends, and if you want to do it **FREE**, just send me an email. Also, if you want to offer for publishing any stuff from your website, you are welcome!

Your opinion is important for me, so, contact if you want to say something!

I have a big collection of pictures, I have got the pictures and stuff in others ways, from **FREE websites**, from commercial CDs, intended for **FREE using**, and so on... I use to the pictures (and seldom, some stuff from closed websites) in ANTENTOP. ***If the owners still are alive***, please, contact with me, I immediately remove any Copyright stuff, or, if it is necessary, all needed references will be made there.

and, they will do this work, and we will see lots interesting articles there.

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Antenna Theory

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Linear Wire Antennas - Dipoles and Monopoles : by Prof. Natalia K.Nikolova

- 1 Dear friends, I would like to give to you an interesting and reliable antenna theory. Hours searching in the web gave me lots theoretical information about antennas. Really, at first I did not know what information chose for ANTENTOP. **5- 34**

Now I want to present to you one more very interesting Lecture - it is **Linear Wire Antennas - Dipoles and Monopoles**
 Small electric dipole antenna. Finite-length dipoles. Half-wavelength dipole. Method of images - revision. Vertical infinitesimal dipole above a conducting plane. Monopoles. Horizontal infinitesimal dipole above a conducting plane.

HF- Antenna Practice

Spreading Antennas of Stationary Radio Communication Base : by V. Filippov

- 2 Spreading and Underground Antennas are widely used at Stationary Radio Communication Bases of Russian military. Some of such old antennas were described at Reference 1. **35-37**
- The article is described another Russian military Spreading Antennas-BAZA- 500D and BAZA- 1500D. The antennas are used until recent days. Article is published with unimportant cutting.

Old CDs in Ten Band Antenna : by: N. Filenko, UA9XBI

- 3 When I has took the CDs in hands I at once has known what I do with it. Of course, it would be dipole Nadenenko! (See References 1) and the CDs would be form its shape! **38**

Field Antenna for FT- 817: by: Vladislav Merkulov, UU9JEW

- 4 I am going to try my FT- 817 from field conditions so I need a field antenna for my FT- 817. I have found proper antenna ATX-1080 at the internet, but... The first, it costs more the 100 evro (it is too much for me), and second, it is hard to order this one from Ukraine. So I decided to do the same antenna by myself. **39- 40**

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Field Antenna for the 40 meters: by: Igor Lavrushov, UA6HJQ	
<p>Before my QRP- pedition I have searched for an effective field antenna for 40 meters. I need antenna which can radiate both as vertical as horizon wave, which does not need antenna tuner and the same time which could be a resonant antenna. I have found such antenna. This one is designed by G3XAP. The antenna works well at my mountain QRP- pedition.</p>	
6	45-49
The Wonderful Beverage Antenna: by: Igor Grigorov, UA3ZNW	
<p>- What antenna do you use? - A Beverage antenna. - A Beverage antenna? What is it? - Well, it is just a very, very long wire... (From lots QSOs EK1NWB)</p>	
7	50- 52
Indoor Helical Antenna for the 20 and 17 meters for K1: by: Igor Grigorov, VA3ZNW	
<p>So, my K-1 with 40, 30, 20 and 17 meters bands was successfully assembled and tuned. This one requires an antenna to go to the Air. Certainly, an antenna is a simple thing if... if you live in a private house. But I live in a multistorey apartment building (made from concrete) with huge restrictions on installation of antennas. The result of these restrictions is those, that I can install an antenna only at a window. Good sign is that in mine apartment the windows are big sized- 150 to 210 centimeters.</p>	
8	53- 54
Experiments with the VHF Magnetic Loop: by: Igor Grigorov, rk3zk	
<p>Some experiments on use of theVHF magloop were made at the 2- meters band. Just some descriptions and ideas.</p>	
QRO	
9	55- 56
2x GI- 7B PA: by: A. B. Marchenko, UA0CT	
<p>PA with two Russian tubes GI-7B does linear amplification CW and SSB. PA implemented on the circuit with grounded grid.</p>	

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Homebrew QRP Equipment

- 10 **Experimental CW QRP Transceiver Mosquito 20m: by: A. Dolinin, UA9LAK/UN7** **57- 60**

Just Simple CW Transceiver...

PROPAGATION

- 11 **Radio Signals out of Our Times : by: Igor Grigorov, VA3ZNW** **61- 65**

In our material world sometimes there are events, which are not correspond to ours knowledge about the world. For example, there are evidences that things and live beings could be come down through the times. That is interesting, the objects can came down through the times in one place and time and come back at another place and time.

However, if large material bodies could come down through the times, why radio wave can not? I shall tell- can. Below I give a list that phenomenon.

- 12 **Mysterious Cases of Absorption of Radio Waves: : by: V. Polyakov, RA3AAE** **66- 68**

I have read the article "Black Spot in the Air" (AntenTop #1 2003). I would like to add to the article my information about others mysterious cases. For one case I was an eye-witness.

- 13 **Free e- book** **69- 70**

Ideas and Projects for QRP

It is the first e-book published on the base of *AntenTop* articles. Book contains 12 chapters (one Supplementary), hams from 12 countries share with you by their experience.

The book is a compilation of articles congenial to QRP published on 2003- 2005 years at free e- magazine AntenTop

Book weights 17 Mb, so, it may take time to download. Anyway you may download all stuff from the book separately using input "Back Issues" or "Open Book" at AntenTop home page.

Of course, the book will be interesting for all amateurs, not only for QRP- fans.

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HISTORY

- 14** **Radio Jamming in the Soviet Union, Poland and others East European Countries: by: By: Rimantas Pleikys** **71- 81**

A specially emitted radio interference is classified into radio communication jamming and radio broadcasting jamming. The first occasions of jamming of military radio telegraph were recorded back in the beginning of the 20th century. Germany and Russia were the first to engage in jamming back then. The jamming signal most frequently consisted of co-channel characters. It was until the early thirties, when the first cases of jamming of radio broadcasting were recorded. In the late 20's Berlin started to jam the programs of Radio Komintern. In 1931 the USSR jammed the Romanian radio, in 1934 Austria jammed the German radio. The Lithuanian language broadcasts of the Vatican radio were jammed by the USSR in 1940.

History of RU- QRP- C: By: Oleg Borodin, RV3GM

- 15** The idea of creation of a QRP-club has arisen in 1986, and it belongs to Andrey Fomenko, UA3EAC. The first list of the members of the U-QRP-C was consisted of two tens calls, most of them were close friends of UA3EAC. At the times Andrey, UA3EAC, has offered to use the code "72". **82- 86**

16 Russian Ham Licence for 1995

Just a copy of Russian Ham Licence (RK3ZK).

The form was used in USSR/Russia from 1982 (may be and from early time)- til 1996 year (at some regions for later times)

87- 88

17 Russian Ham Licence for 2003

Just a copy of Russian Ham Licence (RK3ZK)

The form I have got in 2003

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Useful Data

- 18** **Russian Bipolar Transistors for Transmitters** **91- 93**

It is possible to find bipolar transistors from ex- USSR for very faire price. However, data for the transistors are not to easy find. Here is given data for lots ex- USSR bipolar transistors for transmitters. .

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19	<p>It is possible to find field transistors from ex- USSR for very fair price. However, data for the transistors not to easy find. Here is given data and international analog for lots ex- USSR field transistors for transmitters/Invertors. Also here is given data for some widespread international field power transistors.</p>	94- 96
	Wave kHz/ Meters m	
20	<p>Sometimes it needs to do transfer amateurs frequencies to meters. Tables below allow to do it fast and clearly.</p>	97- 98
	Gordiev's knots: by Veniamin Goldobin	
21	<p>Just knots which can be useful in amateur life...</p>	99- 100

