Guglielmo Marconi - Father of Radio

M arconi,
    Guglielmo
(mahr-koh'-nee,
    gool-yel'-moh)

Guglielmo Marconi, b. Apr. 25, 1874, d. July 20, 1937, is known as the father of wireless. He was the son of Giuseppe Marconi of Bologna, Italy, and Annie Jameson, daughter of an Irish family. The young Marconi developed a deep interest in electrical phenomena. When he read of the experiments of Heinrich HERTZ on electromagnetic waves, he became obsessed with the idea that such waves could be used for transmitting information without the need for the wire connection of the electric TELEGRAPH. In 1894, Marconi began his wireless telegraphy project by repeating some of Hertz's experiments with a number of improvements. Marconi offered his wireless communication system to the Italian government, but it was refused. In London in 1896 he first patented his system and then

secured backing for it. In 1897, Marconi formed his wireless telegraph company. His four-circuit tuning, patented in 1900, led to widespread use of his system. Universal adoption of wireless telegraphy was rendered even more certain

GUGLIELMO MARCONI —1902

by Marconi's famous experiment in December 1901. In St.John's, Newfoundland, he received a radio-wave signal sent out from Cornwall, England.

As an Italian national, Marconi played an active role in World War I and represented Italy at the Paris Peace Confer-

ence, in 1919. Although he continued to perform experiments in the new field of RADIO, which evolved from wireless telegraphy, his later efforts were mainly directed to affairs of state. He received many honors, including sharing the Nobel Prize for physics in 1909. When he died in Rome, he was accorded the unique tribute of a two-minute silence by all radio stations throughout the world.

Eric Eastwood

Bibliography: Aitkin, Hugh G. J., Syntony and Spark: The Origins of Radio (1976); Dunlap, Orrin E., Marconi: The Man and His Wireless, rev. ed. (1937; repr. 1971); Jolly, W. P., Marconi (1972).

"Pooter Patter"

Rebirth of the 486

Rumors of the demise of the 486 were at least slightly exaggerated. Intel's Pentium processor remains the hot ticket for multimedia computing, but two new chips prove there's still life in the workhorse 486 design.

Advanced Micro Devices has added a new 120MHz its line of Am486 microprocessors. Previously, Intel's DX4 chip at 100MHz was the fastest processor. AMD claims 120MHz chip will offer roughly same performance as a 75MHz Pentium chip, but in system costing less. By year end, AMD says it will offer a 133lMHz 486 chip as well.

Texas Instruments (TI), meanwhile has upped the ante a bit with 486DX2 processor clocking in at 80MHz. Until now, 486DX2 chips maxed out at 66MHz. TI plans to charge system makers about $80 for the chip, compared to several hundred dollars apiece for Pentium chips should enable them to give even the least expensive PCs a power boost.

Both the TI and AMD chips should be fully compatible with Microsoft's new Windows 95 operating system as well as earlier versions of Windows and MS-DOS. VIA POPULAR SCIENCE 9/95.

Reviving the Floppy

WITH A MERE 1.44MB of storage space, the 3.5-inch floppy disk seems outdated in this age of CD-ROM's and gigabyte hard drives. But that may soon change.

Compaq is working with 3M and Matsushita to perfect a new 3.5 inch floppy disk system that will hold up to 120MB, and read and write data five times as fast as current floppies. The new drive, expected to begin showing up in PCs this month, will also be able to read existing floppies.

This is not the first attempt at a high-capacity, easily portable disk. Iomega Corp.'s popular Zip drive holds 100MB, and Its new Jaz, drive will hold up to 1GB of data. But the new 100MB floppy disk will likely become standard equipment rather than an extra cost option.-Chris Walley
VIA Popular Science 12/95

Q Dean Calvin, N8RMF, asks, "I am new to the computer world and was wondering why I must use one modem (TNC) for packet radio and a different modem to contact telephone bulletin boards? "

A In its most basic form, a modem translates sata from your computer into audio tones that can be sent over telephone lines, radio links and so on. in its receive mode a modem operates in the reverse, changing audio tones into data. Telephone modems are designed to work on relatively quiet phone lines, not radio links. So, they do a poor job of detecting tones that are sent by radio. The modems in ham TNCs are much better at pulling data out of the noise.

Some hams have managed to modify telephone modems for packet use with limited success. However. a packet TNC is much more than just a modem. It also contains the AX.25 packet protocol firmware, in addition to other critical programlning necessary to make packet work. (With software systems such as BoyCom, for example, these TNC functions are assumed by your computer and a simple external modem does the rest.)
(VIA QST MARCH 96)

Notes Feb. & March

Notes from the February meeting of the Parkersburg Amateur Radio Klub. The meeting was called to order by Lydia White at 7:15 PM.

It was reported the Rudy Sims had a mild heart attack and was in the VA Medical Center in Clarksburg.

A visitor Don Anderson, WD8OOR, Andy was introduced by Larry Dale all others introduced themselves and 27 were in attendance.

COMMITTEE REPORTS

Roy Maull, N8YYS said that classes will begin on April 2nd. at the Emanuel Baptist Church. These classes will run for 6 weeks meeting two times a week, meeting on Tuesdays and Fridays at 7:00 pm. The cost for nonmembers will be $10.00 and the cost of the book. Members will have no cost but the book needed. Roy will be doing the novice class and Carl Long will be doing the upgrade classes.

Other things of NOTE-

The breakfast at the Old Country Buffet was a big success and we will be having our Breakfast meetings there for at least the next few months.

The 39 repeater was stolen and we are on the lookout for it. Dave Thompson and Tim Britton worked overtime to get a backup unit online. Thanks Guys!

Connie Still needs some antenna work done! Let's find some nice weather and get busy.

Hi Gang ! !

Well, it looks like spring has finally arrived and everyone knows what that means — ANTENNA PARTIES! ! There are numerous able-bodied and able-minded Klub members who are very generous with their time and talents to help others in need of antenna work, so if you need assistance, just let us know!

Lots of other exciting things are coming up- CLASSES begin April 2! ! This is a great opportunity for new amateurs to join our exciting hobby and for some of us to upgrade to a higher license class if we so choose.

The Field Day committee is already hard at work planning for Field Day 1996 - June 22 and 23! !

Be sure to get involved and participate! Come and help our Klub have another great year AND have lots of fun doing it! !

A BIG THANKS to all of you for the great turnout and support at meetings and for making our Klub the success that it is. Let's all remember that the best thing about being an Amateur is the camaredaderie and fellowship shared with out brother and sister "hams"!!

Have a wonderful Easter season!!

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ICOM 02AT with certain design modifications, based on Tandy's specs. These variations include encode/decode, additional memories, and a full width LCD display. Contrary to rumor, no part of the radio is Kenwood or Yaesu! ICOM sold the rights to their design to Tandy to do with what they would.

Whan Tandy sought to produce the unit, they went to their usual Korean source for cheap gadgetry: MAXON. Maxon then built the 202 for Tandy, under license from Icom. The HTX-202 is surprisingly sturdy, and well constructed, considering that Maxon has the worst quality control in the industry.

Be that as it may, before Tandy would produce the 202, certain specs had to be met. Foremost, after the repercussions from their 10-meter rig, Tandy insisted that the 202 NOT BE CAPABLE OF MODIFICATION! Period.

This worked out well, as the tighter bandpass gives the 202 it's exceptional selectivity and immunity to intermod. When you brag to your friends about your tight front-end, just remember that the cost of this important function, is the lask of ability to kerchunk your local police department's repeater. Why complain anyway?

Most 202's will not take a BP-7 Icom pack. The BP-8 usually works well. If the Zener diode in the bottom-feed circuit is bad, only a 9.6-vdc pack or less will work. A minor headache at the very least.

ALWAYS: Slide off your NiCad pack when using external DC power from your vehicle or a power supply! Leaving the pack on while mobile puts too much burden on the Zener diodes, and generates heat at twice the normal rate. Save your radio... Take off the pack!

Unlike it's Icom brother, the 202 will not top charge an Icom pack while on external DC power. Refer to the warning above!

HIDDEN FUNCTION: Holding the <F>unction button while depressing the <L>ight button will cause the display lighting to remain on until the

<L>ight button is pressed again.

HELPFUL HINT: Discard your belt clip... Install a commercial H.T. "D-swivel" available at any FM 2-way Business Radio dealer. Add the mount to your belt, and VOILA... No more dropped radios.
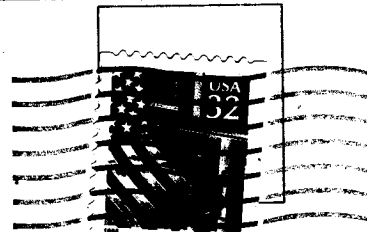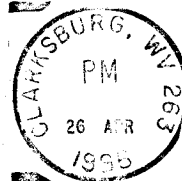
WARNING: DO NOT ATTEMPT TO BOTTOM-CHARGE THE STOCK NICAD PACK IN AN ICOM BC-35 OR CLONE CHARGER. NEVER, NEVER, NEVER!

DESIGN FLAW: Some early production (S/N 2500 and down) radios had the NiCad Zener Diode located too close to the finals, causing final transistor failure when used on external DC with the pack in place. This was remedied in production, and Tandy will remedy under warranty.

Hopefully, this will address all remaining questions and rumors in regard to the HTX-202. It can't be modified. Big deal! It is a sturdy, well-built, dependable radio and a bargain at the price. Be happy with a great deal on a great radio. My HTX-202 got me through in an emergency situation, where my 800-MHz commercial trunked radio failed... That's more than enough for me! ——73 de Jim. N9PEK @ WB9SLE.IL.USA.NA P.S.: TNX Tandy... For once, I'm a happy customer!

Huntington	145.210/-	WB8FEQ	oe(ca)
Huntington	146.760/-	W8VA	o(ca)z1
Huntington/Ch	146.640/-	WB8EZR	ozRB
Leon	147.180/+	WD8OHX	oe(ca)
Lewisburg	146.730/-	WB8SPW	o(ca)
Lewisburg	147.390/+	WV8D	o
Liberty	145.410/-	W8HYX	o
Logan/Sumerco	147.345/+	NU8K	o(ca)1
Logan/Ward Rk	146.970/-	KJ8E	o(ca)1
Madison	147.120/+	N8TXQ	oez(ca)t
Mcmechen	146.910/-	N8SAQ	o
Morgantown	145.430/-	K8LG	oal
Morgantown	146.760/-	W8CUL	oe
Morgantown	147.075/+	KE8MR	oaz1RB(ca)
Mullens/Hrndn	147.030/+	KC8IT	oRB
New Martinsville	146.985/-	KF8LL	oae
Oak Hill	146.790/-	NM8T	oz
Parkersburg	145.490/-	WV8G	oae
Parkersburg	147.255/+	WA8LLM	oaeRAzWx{RACES}
Parkersburg	147.390/+	WD8CYV	oe
Parsons	145.370/-	K8VNQ	oaezt118.8
Princeton	147.060/-	KA8PNC	o(ca)
Princeton	147.225/+	WB8NRK	oe(ca)
Princeton/Pip	146.925/-	WD8OGY	o
Ravenswood	146.670/-	WD8JNU	o(ca)
Ravenswood	146.700/-	WD8JNU	oRB
Richwood	145.190/-	WB8YJJ	oe
Richwood	145.470/-	W8FG	o
S Charleston	145.250/-	KB8ODO	o(ca)
S Charleston	146.880/-	WB8CQV	ol
Salt Rock	145.110/-	WD8MCR	o
Scott Depot	147.270/+	WC8S	oz1RB(ca)
Sherrard	146.715/-	KD8GL	oz(ca)1
Spencer	147.105/+	WT8Z	o
Spruce Knob	147.285/+	N8HON	ol
St Albans	147.000/-	K8WMX	oe
St Albans	147.150/+	KA8SVR	oez1RB(ca)
St Albans	147.375/+	K8WMX	oy
St Marys/Bens	147.030/+	WB8ECC	ol
Terra Alta	147.000/+	KD8ZR	oaz
Union	145.410/-	KB8CM	o
Weirton	146.940/-	W8CWO	oaez(ca)
Welch	145.450/-	WB8SXZ	o
Weston	145.390/-	WD8EOM	o(ca)
Weston	147.165/+	WC8K	oeRB
Wheeling	145.190/-	WB8JGY	o(ca)1
Wheeling	146.760/-	W8ZQ	oe
Williamson	145.330/-	WR8M	oaRB

EAST

Berkeley Spgs	146.745/-	KK3L	oerxl
Charles Town	146.985/-	N8EIV	ot{t (pm)}
Martinsburg	145.150/-	WA8FSE	oe
Martinsburg	147.255/+	WB8YZV	o
Martinsburg	147.345/+	WB8VBW	o(ca)elx
Moorefield	145.190/-	KD4SZR	ox 118.8

ROMNEY

Romney	147.390/+	N8RCG	o(ca)

NOTEs Description:

A	ARES affiliated	o	Open repeater
a	Autopatch	p	Portable System
bi/bl	Bi-lingual	pkt	Data exchange capable
(ca)	Closed Autopatch	R/r	RACE affiliated
c	Closed system	RB	Remote Base
DS	Dual Squelch	SNP	Shared Non-Protect
e	Emergency power	t	Tone-access
e-sun	Solar-powered	tt	Touch-Tone
e-wind	Wind-powered	Wx	Weather net
Exp	Experimental	x	Widearea coverage
l	Linked/Cross-band	y	RTTY/ASCII
LiTZ	Long-Tone Zero	z	Direct Access to police

USA_144MHz

WEST VIRGINIA

T-MARC Area	145.170/-		SNP
Amber Ridge	147.210/+	KB8NJH	oe
Beckley/Bolt	145.170/-	N8FRV	oal
Beckley/EOC	145.370/-	N8TNB	oal
Beckley/Flat	146.850/-	WA8WDK	ol
Beckley/Layla	145.310/-	WF1G	oal
Beckley/Oak H	145.230/-	N8FWL	ol
Bluefield	145.490/-	W8MOP	oe(ca)
Bridgeport	147.120/+	WB8DKM	o(ca)t
Buckhannon	145.130/-	N8FHE	o
Buckhannon	145.410/-	N8FHE	oa
Buckhannon	146.850/-	WD8L	oe
Buckhannon	147.060/+	N8ZAR	oaezlRBt123.0
Charleston	145.350/-	W8GK	oez(ca)
Charleston	145.430/-	WS8L	o(ca)
Charleston	146.820/-	WB8IFS	oaz
Clarksburg	146.685/-	N8FMD	olt103.5
Clarksburg	147.210/+	N8FMD	oz(ca)t103.5
Craigsville	145.270/-	N8FMD	olt103.5
Davis	147.135/+	KE8MR	olt103.5
Elizibeth	147.000/+	N8TWU	oae
Elkins	146.775/-	KB8BWZ	o
Fairmont	145.350/-	W8SP	oa
Fenwick	146.940/-	KD8AB	o
Flat Top/Wint	146.625/-	WF1G	oa
Flatwoods	146.655/-	N8ZPX	o
Franklin	147.345/+	W3RUA	oe
Gassaway	146.610/-	WB8MZI	o
Glenville	145.290/-	KA8ZXP	oaezlRB
Glenville	146.835/-	KB8EUN	o
Grafton	147.375/+	WD8LNB	o
Grantsville	145.450/-	N8LGY	o(ca)z
Harrisvl/Pens	147.300/+	WB8NSL	o
Hinton	147.255/+	KB8EQC	oae
Horsepen Mt	147.195/+	NV8H	o(ca)l