

# AMATEUR RADIO

October 1968

73¢

# 73

## RECEIVERS

Thoughts on  
Receiver Design

3 Tube Super Het  
Receiver

Midnight Oil  
Receiver

High Performance  
Receiver for 2

Mobile Noise  
Suppression

AVC Circuits

Regen Detector

And Many More  
in this Issue



# UFO

Late in July headlines were made all over the U.S. when Dr. McDonald, senior physicist at the University of Arizona's Institute of Atmospheric Physics, indicated a probable connection between UFO's and the power blackouts. This theory is strongly substantiated in Fuller's book, "Incident at Exeter." available in paperback.

Just about everyone involved in studying the UFO reports is in agreement that now is the time for a step up in the investigation of these objects. Russia, despite some conflicting reports, is going all out to investigate and photograph UFO's. Amateur radio has it in its power to do more to help bring light to this mystery than any other group in the world. Only amateur radio reaches into every community in our country and makes it possible to provide the fast communications that will be needed to alert investigation teams along the line of UFO travel.

If we get to work on this we can set up the most comprehensive alerting network the world has ever seen. We can tie in every other communications system to our amateur net . . . we can include all users of mobile radio, marine radio and aircraft radio . . . all fixed stations . . . military . . . government services . . . UFO watching groups . . . fire tower watchers . . . radio and television stations . . . everything. If each of us sets up a liason in his own area to all other services and interested parties to receive and forward any UFO reports we can achieve this vast system.

Between NICAP and APRO I suspect that we will all be able to find at least one person in any area who is interested in helping to solve the UFO mystery. If we ask him to set up the liason by phone to receive reports of any sightings in the area from any source and pass them on to you and, in turn, to pass along any alerts you get via amateur radio to those interested. The net can be set up with a minimum of responsibility on your shoulders. Of course if your wife is interested in acting as the liason then she could handle that aspect of the net. The liason man should be available most of the time and have two phones

. . . one for incoming calls and the other to pass along messages to you or others who should get the word.

If you can fire up on 14.3 MHz and can devote a bit of time to helping to solve this UFO problem as well as enormously aiding the radio amateur image in your community then get started by checking in at 0200 GMT (10 pm EDT) on any night and reporting your interest. Next drop a line with SASE to NICAP, 1536 Connecticut Ave. NW, Washington 20036 and ask them for the name of a person interested in UFO's in your area that might be able to work with you on this. If you want to handle it all yourself then just get to work contacting the local papers and giving them the story of the net and your service with the net. Same for radio and television stations. Promise all of them full cooperation on incoming reports if you get immediate reports from them of anything hot.

After you've contacted your local CB group, police, fire, CAP, road department, public service, telephone company and doctors with mobile radio then start looking for other mobile radio users and groups or individuals that might either be able to report sightings or benefit by knowing of probable sightings. You will certainly get to know a lot of people in your community.

You don't have to profess any belief or disbelief in UFO's. That is one of the purposes of the net . . . to pin this whole matter down as quickly as we can and either make it possible for positive identification of these things or else to expose them for what they really are.

The nice part of it is that we can provide an enormous public service, complete with great benefit to amateur radio. When we get this going well we should be getting a good deal of national promotion . . . and we may see more fellows getting interested in amateur radio and find Congress more interested in helping us. Even the FCC may begin to realize that we exist.

One other point that you might not have considered . . . when you are the hub of this

(turn to page 121)

UFO from page 4

UFO activity for your area you will be the one that is called when something is doing . . . and that is fun. Just the other day I got a call from a farmer in Francistown. Seems that he had been haying down in this field and saw some mighty peculiar burnt spots that he knew had not been there before. He asked around and someone remembered my name and he called me.

Lin and I drove right up to take a look. Sure enough, we found two circular almost bare spots along the edge of the field. It looked as if something about three feet thick and 21' in diameter had set down there for a while. None of us could imagine what on earth could have made two identical marks like that about 50 feet apart, plus several smaller bare spots about ten feet in diameter. The farmer swore they hadn't been there before this summer.

Almost identical marks have been found in other fields near here in the past and no one has an explanation. It was interesting to me that just about a half mile up the hill from the bare spots was a microwave repeating tower. Hmmm.

I reported the whole matter to the local NICAP investigator and Dean Coles at Franklin Pierce College. Dean is going to make some radioactivity tests on the spots.

Like I say, when you get involved in this you can have a lot of fun.

### UFO NET SCHEDULE

Wednesdays 0200 GMT 14,300  
Thursdays 0200 GMT 3950

. . . W2NSD/1

### SUBSCRIBERS

We want to make absolutely sure that no one is using our 73 mailing list. We do not rent this list out as do other magazines. If your address label from 73 is distinctive and you find that you are getting any mail addressed in the same distinctive way please let us know immediately and send us the envelope or wrapper that you received so we can take appropriate action. Your help in this will be very much appreciated.

## BUCK-TEN BAGS

### SILICON DIODES

PIV	1 AMP	12 AMP	20 AMP	40 AMP	50 AMP	100 AMP	240 AMP
50			.25	.50	.55		1.50
100	.12	.25	.35	.75	.80		2.00
200	.15	.30	.50	1.00	1.05	1.50	2.50
400	.18	.35	.70	1.25	1.30		3.00
500	.20	.50	.90	1.50	1.60	2.00	4.00
600	.24	.65	1.00	1.75	1.90		4.40
800	.30	.75	1.30	2.00			5.00
1000	.35	.90	1.40	2.35			

2N670 Germ Audio. Gain over 100	10/\$1.10
FET's mostly C610-C615 types, w/spec sheet	3/1.10
200 miniature glass diodes, unchecked	200/1.10
2N424 MESA 80 watt	3/1.10
CK-722, a real value	6/1.10
VARIABLES experimental pack w/sheet	20/1.10
2N2875 20 Watt Planar	4/1.10
2N697 Hi freq 2 watt TO-5	15/1.10
2N696 Hi freq 2 watt TO-5	15/1.10
VARIABLE 40 Watt sim to MA-4060A w/cir. ea.	4.00
1N251 Silicon diode, UHF mixer	20/1.10
TO-5 Sil. power mix 2N498-2N546-2N549	10/1.10
TO-3 Mix, 20-50 watt, 2N155-2N255	8/1.10
MICRO TRANSISTOR Planar Epitaxial w/sht	25/1.10
FLY SPECK transistor, micro miniature	8/1.10
MICRO DIODE silicon	20/1.10
2N706 Hi freq. 400 mc	7/1.10
BI-SWITCH make lamp dimmer etc. w/sheet	2/1.10
2N1417 Audio silicon NPN	15/1.10
2N670 Silicon audio	10/1.10
2N1059 NPN Germanium AF	10/1.10
2N613 PNP Germanium AF	8/1.10
2N404 Popular type PNP switching	6/1.10
2N414 PNP IF Germanium	6/1.10
2N990 Germ. RF factory branded	6/1.10
60 WATT silicon 2N1208-2N1209-2N1210 types	3/1.10
4 WATT silicon Mesa 2N498	4/1.10
ZENER - 6 volt .2 amp	4/1.10
GERMANIUM diodes Clevite EM-1	20/1.10
1N82 Hi freq. mixer diode	25/1.10
TO-18 Hi-freq. switching RF transistors	25/1.10
TO-5 Hi freq. switching RF transistors	25/1.10
BI-DIRECTIONAL Silicon transistors	15/1.10
2N223 PNP germ AF, good gen. purpose	6/1.10
500 uufd Mica feed-thru button	15/1.10
IBM MEMORY CORES w/spec sheet	200/1.10
RESISTOR - MIX 100 units 1/2 watt	100/1.10
DISC CERAMIC CAPACITORS, mixed	100/1.10
2000 volt 1 amp diode	ea/ .80
3000 volt 1 amp diode	ea/1.20
REED SWITCH miniature glass	6/1.10
PHOTO-CELL resistive type	2/1.10
PHOTO-CELL, generates electricity	2/1.10
SILICON DIODES 1 1/2 amp mixed voltages	15/1.10
GEIGER COUNTER chassis, less tube	4.50
INFRA RED viewing tube, see in dark, w/specs	4.50
AIR FORCE throat mike w/strap	.60
MICROPHONE, small spy type w/experiment sht	3/1.10

All above material shipped postpaid in the U.S. Send 25c for large catalog of many many interesting items.

Above transistors may be marked or unmarked.

**JOHN MESHNA JR.**

19-A Allerton St., Lynn Mass. 01904