



# Amateur Radio

Volume 70  
Number 2  
February 2002

The Journal of the Wireless  
Institute of Australia  
ISSN 0002-6859

## Editorial

Editor: Colwyn Low VK5UE  
edarmag@chariot.net.au

Technical Editor: Peter Gibson VK3AZL

### Publications Committee Members

Ron Fisher VK30M  
Don Jackson VK3DBB  
Evan Jarman VK3ANI  
Bill Rice VK3ABP  
Gil Sones VK3AUI  
Bill Roper VK3BR

## Advertising

Mrs June Fox,  
Tel: (03) 9528 5962

### Hamads

"Hamads" Newsletters Unlimited  
PO Box 431, Monbulk Vic 3793  
Fax: 03 9756 7031  
e-mail: newsletters@ozemail.com.au

## Office

10/229 Balaclava Road  
Caulfield, Victoria  
Telephone (03) 9528 5962  
Facsimile (03) 9523 8191  
Business Hours 9:30am to 3:00pm weekdays

## Postal

The Editor AR  
34 Hawker Crescent  
Elizabeth East  
South Australia 5112  
Email edarmag@chariot.net.au

## Production

Newsletters Unlimited 03 9756 7797

### Printer

Streamline Press, Melbourne (03) 9417 2766

### Postal Service

IMS (03) 9291 5888

## Production Deadlines

Advertising booking and articles for  
publication 10<sup>th</sup> of preceding month.

Hamads and advertising material deadline  
18<sup>th</sup> day of preceding month

The contents of Amateur Radio are Copyright  
Wireless Institute of Australia © 2002

## General

66 Tips for 6.....	8
<i>Neville Mattick VK2QF</i>	
LANGKAWI AS-058. A Holiday Soiree.....	13
<i>Johnny Melvin G3LIV</i>	
Ve haff vays of making you TOCK.....	16
<i>Mike Krochmal VK3KRO</i>	
The new UK Foundation Licence.....	18
<i>David A Pilley VK2AYD</i>	
Classification of emissions: Episode three.....	46
<i>Henry Andersson VK8HA</i>	
What happens.....	40
<i>Colwyn Low VK5UE</i>	

## Technical

"Tone-a-Volt" audible voltage and component tester.....	4
<i>Drew Diamond VK3XU</i>	
The DISCONE—a good broadband antenna.....	9
<i>Mike Todd VK6JMA</i>	
A Field Day or Emergency Portable Mast for VHF & UHF Antennas.....	11
<i>Keith Gooley VK50Q</i>	
Portable Two Element Triband Yagi (Technical Abstracts).....	25
<i>Gil Sones VK3AUI</i>	
Sardine Sender Updated (Technical Abstracts).....	26
<i>Gil Sones VK3AUI</i>	
Determining Transistor and Diode Leads with a Multimeter (Technical Abstracts).....	26
<i>Gil Sones VK3AUI</i>	

## Columns

Advertisers' Index.....	55	Ham Shack Computers.....	47
ALARA.....	20	HF Predictions.....	52
AMSAT.....	35	How's DX?.....	38
Beyond Our Shores.....	23	Intruder Watch.....	32
Education Notes.....	24	Over To You.....	56
Contests.....	41	Repeater Link.....	33
Club News.....	21	Silent Keys.....	10, 31
WIA Division News		Spotlight on SWLing.....	22
VK1 Notes.....	30	Technical Abstracts.....	25
VK2 Notes.....	30	VHF/UHF - An Expanding World.....	49
VK4 Notes.....	30	WIA Comment.....	3
VK6 Notes.....	31	WIA Division Directory.....	JBC
Editor's Comment.....	2	WIA Federal Directory.....	2
Hamads.....	54		

## Our cover this month

The station shown here is homebrewed except for the microphones and the clock. It is a tribute to the Amateur spirit and in particular to George Hodgson VK20H who built it. Long Live Homebrew!

### Contributions to Amateur Radio

Amateur Radio is a forum for WIA members' amateur radio experiments, experiences opinions and news. Manuscripts with drawings and or photos are always welcome and will be considered for publication. Articles on disc or email are especially welcome. The WIA cannot be responsible for loss or damage to any material. A pamphlet, How to write for Amateur Radio is available from the Federal Office on receipt of a stamped self-addressed envelope.

### Back Issues

Back issues are available directly from the WIA Federal Office (until stocks are exhausted), at \$4.00 each (including postage within Australia) to members.

### Photostat copies

When back issues are no longer available, photocopies of articles are available to members at \$2.50 each (plus an additional \$2 for each additional issue in which the article appears).

### Disclaimer

The opinions expressed in this publication do not necessarily reflect the official view of the WIA and the WIA cannot be held responsible for incorrect information published.