

January & February
Janvier-
Février
2022

Editor / Rédacteur en chef
Alan Griffin
Email: tcamag@yahoo.ca

Advisors / Conseillers
Dave Green, VE3TLY
Norm Rashleigh, VE3LC
Richard Ferch, VE3KI
Bill Karle, VE1YY
Ken Grant, VE3FIT
Mike Kelly, VE3FFK

Translation / Traduction
Claude Lalonde, VE2LCF
Jacques Roland, VA3DLZ

**Technical Diagrams /
Schémas techniques**
Stan Smith, VE3DDX

Advertising Department:
Rate sheet:
<https://www.rac.ca/tca/>
Contact: marcom@rac.ca

The Canadian Amateur is published by Radio Amateurs of Canada Inc. / The Canadian Amateur est publié par la société Radio Amateurs du Canada Inc.

Indexed in the Canadian Periodical Index / Enregistré à l'Index des publications canadiennes : ISSN 0834-3977

Publications Mail Agreement
Accord de publications diffusées #40028682.
Registration / matricule #09866

The Canadian Amateur
720 Belfast Road,
Suite / Bureau 217
Ottawa, ON, Canada
K1G 0Z5
613-244-4367;
1-877-273-8304
tcamag@yahoo.ca
<https://www.rac.ca/>

Printed in Canada by
St. Joseph Communications
Ottawa, ON, Canada
Imprimé au Canada sur
les presses de St. Joseph
Communications
Ottawa, ON, Canada

Return Undeliverable Canadian
Addresses to
Circulation Department:
217-720 Belfast Road
Ottawa, ON K1G 0Z5

**For RAC Membership
Inquiries and Change of
Address please contact
RAC HQ at: rachq@rac.ca**



"Twenty years ago, we would have needed an army of porters to help carry enough radio equipment to the tops of mountain peaks to be able to make contacts around the world.

Today's software defined radio (SDR) technology and efficient batteries allow us to carry the required equipment in a small rucksack..." – see page 12 for the complete adventure.



West Kootenay's First Solar-Powered Repeater VE7WKM – see page 16

**WWW.
HAMSTUDY
.COM**

Self study courses for Canadian
BASIC and ADVANCED
Amateur Radio exams

NATIONAL & INTERNATIONAL

RAC National Executive and Board of Directors..... 4

RAC President's Message / Un message du président, 5

Changes to RAC Board and Executive 8

Garry Hammond, VE3XN and "Jack" Leahy, VE1ZZ
Appointed to the Canadian Amateur Radio Hall of Fame 9

Presentation of CARHOF 2020 Plaque 9

RAC Canada Day Contest 2021 Results 24

Changing our Perception of the Amateur Services,
Tim Ellam, VE6SH 35

Changer notre perception des services amateurs,
Tim Ellam, VE6SH 35

RAC Regulatory Roundup,
Dave Goodwin, VE3KG 38

Message from the RAC Community Services Officer,
Jason Tremblay, VE3JXT 51

The RAC Canadian Portable Operations Challenge 64

TECHNICAL

Radio Magic, Robert C. Mazur, VA3ROM see next TCA

Amateur Radio Satellites,
Keith Baker, VA3KSF 14

QUA – A Topical Digest,
Allen Wootton, VY1KX 19

Another Look at the Inverted V Antenna,
Erik Skovgaard, VA7QI 31

DEPARTMENTS

TCA Advertising Index 2

Silent Keys 3

RAC QSL Bureau System 3

Defence of Amateur Radio Fund (DARF) 18

Donate to Support Amateur Radio 18

RAC Membership | Adhésion de RAC 39-41

Articles Wanted: Digital Voice Radio and Networking 50

OPERATING

Six Metres and Down, Dana Shtun, VE3DS	10
Summits On The Air (SOTA) in the Canadian Rockies, Paul Mower, VA6MPM	12
West Kootenay's First Solar-Powered Repeater VE7WKM, Lane Wilson, VE7IHL	16
RAC Canada Day Contest 2021 Results, Bart Ritchie, VE5CPU + Sam Ferris, VE5SF	24
RAC Regulatory Roundup, Dave Goodwin, VE3KG	38
The K1P Canada Day 2021 Story: Multi-Op Contesting and Remote Radio in the middle of a Pandemic, Gerry Hull, VE1RM/W1VE	42
The Sports Page – The Canadian Contest Scene, Tom Haavisto, VE3CX	42
Articles Wanted: Digital Voice Radio and Networking	50
Public Service / Auxiliary Communications Service	51
Message from the RAC Community Services Officer, Jason Tremblay, VE3JXT.....	51
Amethyst District ARES Team Participates in Simulated Emergency Test, Woody Linton, VE3JJA	52
Bruce County Auxiliary Communications Service SET 2021, Rob Noakes, VE3PCP	53
Community and Emergency Service Reports	54-59
RAC Field Organization Reports / National Traffic System Net Reports	57
Club Corner / "Bits and Pieces...", Phil Boucher, VE3BOC.....	60
"My Quest to Continue the VE3GT Legacy", Jared Thivierge, VE3GT	61
"My 10 metre CW Beacon Project", John Noakes, VE7NI	62
Amateur Radio Operators of Canada (AROC), Lee Spicer, VA7SPX.....	62
Ideas and Resources for New (and Current) Amateurs, Roger Egan, VA3EGY and Harrie Jones, VE3HYS	63
Youth On The Air (YOTA): Youth Volunteers needed for Upcoming Camp	63
The RAC Challenge Update, Dave Goodwin VE3KG	64
"My First Activation for the RAC Challenge", Paresh Mody, VE3PQX	64

– Articles Wanted: Digital Voice Radio and Networking and much more: tcamag@yahoo.ca –

Please Support our Advertisers

Amateur Radio Operators of Canada (AROC).....	63
Coax Publications Inc Study Guides.	7
Degen Designs	23
DX Canada.ca	13
DX Engineering	23
Hammond Manufacturing / Peter W. Dahl Co.	inside back cover
Hamstudy.com + Study Guides.....	1, inside back cover
HC MacFarlane Electronics.....	13
Maple Leaf Communications	21
Premier Communications.....	34
Quarter Century Wireless Association	11
Radio Amateurs of Canada	18, inside back cover
Radioworld	11, outside back cover
Radio Society of Great Britain	32
The Personal Home & Auto Group Insurance.....	inside front cover

The Canadian Amateur is published in Canada six times per year to provide Radio Amateurs, those interested in radio communications and electronics, and the general public with information related to the science of telecommunications.

Articles, reviews, letters, features, suggestions, photographs and essays are welcomed. Manuscripts should be legible and include the contributor's name, call sign, phone number(s) and addresses (mail, email and packet, as applicable).

For a complete Author's Guide visit: <http://wp.rac.ca/tca/>

The contents of this publication are copyright, and may not be reproduced without prior consent except by a bona fide Amateur Radio organization which may reproduce them provided the author and The Canadian Amateur are acknowledged.

The Advertising Department of The Canadian Amateur, on behalf of the magazine, wholly disclaims any responsibility for the content of any advertisement contained herein and makes no representations on behalf of The Canadian Amateur as to the truth of any statement contained in any such advertising.

Radio Amateurs of Canada Inc., and the publisher and editor of The Canadian Amateur, hereby disclaim any responsibility for any statement of opinion or other statement that may be contained in any article published by The Canadian Amateur and any such statement of opinion or other statement contained in such article is solely the opinion of the author of the article and not that of Radio Amateurs of Canada Inc., or the publisher or editors of the magazine, unless it is specifically stated to be the case therein.

The Canadian Amateur is published by Radio Amateurs of Canada Inc., 720 Belfast Road, Suite 217, Ottawa, ON K1G 0Z5

Indexed in the Canadian Periodical Index: ISSN 0834-3977.

Publications Mail Agreement No. 40028682.

Registration No. 09866.

The Canadian Amateur, publié six fois par an, est destiné à fournir aux radioamateurs, à toute personne intéressée à la radio et à l'électronique et au grand public, des informations de toute nature relatives à la science des télécommunications.

Nous acceptons avec plaisir tout article, étude, suggestions, photos et lettres. Les manuscrits soumis doivent être lisibles et porter le nom de l'auteur, son indicatif, son ou ses numéros de téléphone ainsi que ses adresses postales, courriel et paquet s'il y a lieu. Si vous avez envie d'écrire pour TCA : <http://wp.rac.ca/tca/>

Le contenu de la présente publication est protégé par copyright, tous droits réservés et ne peut être reproduit sans autorisation préalable dont est toutefois dispensé tout groupement reconnu de radioamateurs sous réserve que ladite reproduction paraisse avec les mentions du nom de l'auteur et soit identifiée extraite de The Canadian Amateur. Le service publicité de The Canadian Amateur, agissant au nom de la revue, décline toute responsabilité quant au contenu des annonces publicitaires publiées et ne se porte en aucune façon garant de la véracité des propositions contenues dans lesdites annonces.

La compagnie Radio Amateurs du Canada Inc. ainsi que l'Éditeur et le Rédacteur en chef de The Canadian Amateur déclinent par les présentes toute responsabilité quant aux opinions exprimées ou autres déclarations pouvant apparaître dans tout article publié par The Canadian Amateur et déclarent en outre que toute expression d'opinion ou déclaration figurant dans un tel article représentent uniquement l'opinion de l'auteur dudit article et non l'opinion de la société Radio Amateurs du Canada Inc., ou celle de l'Éditeur ou du Rédacteur en Chef de la revue à moins qu'il soit spécifié que ce soit le cas en l'occurrence.

The Canadian Amateur est publié par la société Radio Amateurs du Canada Inc., 720 rue Belfast, Bureau 217, Ottawa, ON K1G 0Z5

Enregistré à l'Index des publications canadiennes sous le numéro ISSN 0834-3977.

Accord de publications diffusées par courrier : 40028682.

Numéro de matricule 09866.