



the **RA RA RAG**

Published by

ROCHESTER AMATEUR RADIO ASSOCIATION, INC.

VOL. 37

FEBRUARY 1985

NO. 6

RaRa MEETS FEBRUARY 1st SECRET SURPRISE PROGRAM!

The February RaRa meeting will be held as usual, the first Friday of February, at 8 p.m., at the 40/8 Club, 933 University Avenue. The Program, however, will be quite unusual! I won't say any more about it here, but come and be surprised. You won't be disappointed.

Of course, we all know that you really don't come to the meetings for the program, you come to meet your friends, participate in the Awards Program, and eat the delicious donuts and drink your choice of coffee or cocoa prepared by our *Chef Extraordinaere* George Muller, WA2IEO. Hope to see you all there!

LICENSE CLASS

by Ed Holdsworth, N2EH

This spring sessions for Novice and General will get underway on Monday, February 25, 1985 at 7:30 p.m. They will again be held in the Social Services Building at 111 Westfall Road corner of Mt. Hope Avenue. Registration will be on the first night. We will also start classes for Advanced Class on Monday, March 4, 1985 and a class for Amateur Extra on March 26 (Tuesday). If you plan on attending any of these classes, PLEASE let me know. You can send me a card to my home address or sign up at the February meeting.

Fees will be as follows:

Registration for all classes	\$3.00
Club Membership Unlicensed	4.00
Licensed	7.00
Books etc Novice	2.00
Tech/Gen, Advanced, Extra	4.00

FEBRUARY RaRa AMATEUR EXAMS

Saturday, February 23, 1985

Contact:

A. G. de Blieck, KW2X
59 Bay Knoll Road
Rochester, NY 14622
(716) 544-3730

RRRA DISPLAYS RADAR AT FEBRUARY 15th MEETING

The RRRA will meet as usual this month on Friday, February 15th, at 8 p.m. in the Pittsford Town Hall. President Howie Davies, N2CUN, will be discussing the city DWI Program and will also demonstrate the use of Police Radar.

The repeater controller fund is steadily growing, and it is still not too late to make your tax-exempt contribution. Mail it to P.O. Box 92031, Rochester, NY 14692 or bring it to the meeting.

WINTER FUNFEST FEBRUARY 9th AT MENDON PONDS PARK

by Dave Bernheisel, N2DPF

Don't forget! - The first annual RaRa Winter Family Funfest will be held Saturday, February 9th at Mendon Ponds Park (Hopkins Point Lodge). We have reserved a lodge and have planned a enjoyable event for everyone. The fun begins at 12 noon and doesn't stop until 6 p.m. Hot food will be served all afternoon and hot beverages will be available at all times.

In addition to cross-country skiing, sledding and other outdoor activities, there will be plenty of room inside for visiting with old friends and making new acquaintances by the fire. (Maybe we can even have a Trivial-Pursuit tournament.)

There will be a dessert-baking contest with prizes awarded to the winning entries. So plan to bring some type of baked 'goodie' (cookies, cakes, pies, rolls, etc.) to enter in the contest and to share with everybody when the judging is over.

The cost for this Funfest will be only \$2 per person, up to a maximum of \$5 per family. If you plan to attend, please tell us how many people in your family (including yourself) will be attending as soon as possible by calling Dave Bernheisel, N2DPF, at 244-1856. We look forward to seeing you there!

the RARA RAG

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DID YOU FINISH THE JOB

by Ray Roberts, WA2SSU

Many of us have had the pleasure of increasing our ranks by administering the novice exam to a potential amateur. Helping a new ham is the duty of all amateurs. It is part of the hobby. However I am sure that some of us too soon forget the novice once the exam papers are mailed to the FCC.

Over the holidays I received several calls from hams leaving the hobby and wanting to donate equipment to the club. One was moving but one of the other people had a different problem. He felt he couldn't make it as a ham. He had several excuses for this: going to school, lost interest, no time.

I find this kind of sad. Perhaps if his volunteer examiner had paid a follow-up call on him, he might have been able to point him in the right direction for upgrading or ham activities.

As president of the club, I am asking that all of those that serve as volunteer examiners to call or visit your new novices 30 days after they receive their licenses. Find out if the rig is working, help him make his first few contacts, inform him of upcoming license classes, and/or introduce him to some ham you know.

Activity is important. It breeds interest and interest is vital to keeping newly licensed as well as old timers who may have fallen by the wayside.

So please contact anyone you may know of that might need a hand. If you can't do it yourself, contact any officer, director, or license class teacher to follow up. Tnx and 73.

CORRECTIONS

everybody makes mistakes

In the *RAG* recently, we made a grammatical mistake; I meant to say that the two hams who married each other both worked some new countries on their honeymoon, not "*He worked some new countries and his wife too.*" We regret the error.

In the "News About Members" section, I meant to say that one of the club members will, as he always does, run a kw on 10 meters, not "*Will operate a kilowatt as usual on 11 meters.*" Sorry; meant no harm.

In the "contest news," we meant to say that the ham was going to take time during the event so he could *chat* with other club members, not "*Chat with other club members*" as it came out. Sorry about that.
Tnx MARC TIMES

COPS CORNER

by Howie Davies, N2CUN, RPD

Information on New York State Vehicle and Traffic Law Sec. 1229-C, The New Seat Belt Law.

What is the effective date?

– December 1, 1984. Warnings will be issued until January 1, 1985, when penalties will be imposed.

Who must be secured?

– All front seat occupants
– All children under 10 anywhere in the vehicle
– All children under 4 must be secured in an approved child safety restraint device.

Who is responsible and subject to a fine?

– The driver is responsible for any passenger under the age of 16
– Passengers 16 and over are responsible for themselves.

What are the penalties?

– A fine of up to \$50.00

What are the exemptions?

– Medical - for a physical condition which prevents use of belts. A physician must give the exemption
– Occupants of autos manufactured before seat belts were required
– Emergency vehicles, taxis, large school buses.

ARRL BOOK INFORMATION

The latest edition of *The FCC Rule Book* is now available from ARRL Headquarters for \$3.00. This edition contains all the latest changes in Part 97, and has a new light-blue cover to distinguish it from the second edition (red cover).

The new *ARRL General Class License Manual* went to the printer on December 31, and should be available by the beginning of February, in plenty of time to prepare applicants for the new FCC question pool that will be put into use by all VECs before May 1. This new license manual will contain all 500 questions in the new question pool, along with the correct answer and distractors for each. The book also contains theory and operating information for anyone studying for the Technician/General exam. Anyone studying for General class exams to be given through March should continue to use the "green" *ARRL License Manual*.

The Advanced class license manual should be ready by late Spring, and the Extra Class manual sometime this Fall. More information on the specialized manuals will appear in February *QST*.

Tnx ARRL Letter

FEBRUARY RAG CALENDAR

- 1 - RaRa Meeting, 8:00 p.m.,
40/8 Club, 933 University Avenue
- 6 - RaRa Board of Directors meeting,
QTH of N2EH
- 6 - March *Rag* Deadline
- 8 - Rochester VHF Group meeting, 8:00 p.m.
County Social Services Building,
111 Westfall Road
- 14 - Rochester Packet Radio Club meeting,
7:30 p.m., Tele-Connect Systems,
320 South Avenue
- 15 - RRRRA meeting, 8:00 p.m.,
Pittsford Town Hall
- 19 - RDXA meeting, 8:15 p.m.,
Colonial Hotel, 1127 Empire Boulevard
- 23 - Amateur Radio Exams, County Social
Services Building, 111 Westfall Road

SOUTH PACIFIC MAP

by Bill Welsh, W6DDB

I recently obtained an excellent map of the South Pacific. It shows the location, capital, and political status of American Samoa, Cook Islands, Fiji, French Polynesia, Guam, Hawaii, Kiribati, New Caledonia, Nauru, Niue, Papua New Guinea, Pitcairn Islands, Solomon Islands, Tokelau, Tonga, Tuvalu, Trust Territories of the Pacific Islands (Belau/Palau, Federated States of Micronesia, Marshall Islands, and Northern Mariana Islands), Vanuata, Wallis and Futuna, and Western Samoa. Small island groups are shown within the previous larger groups. These include the following island groups: Austral, Chesterfield, Gambier, Gilbert, Marquesas, New Georgia, Phoenix, and Society Islands.

The name of this map is the New Pacific Map 1984 edition. It is published by the State of Hawaii. It was jointly produced by the State of Hawaii and the Pacific Basin Development Council.

The overall dimensions of this map are 31 by 23 inches, and the image area is 17.75 by 19.75 inches.

If you want to obtain a single free copy of this map, request it from the State of Hawaii Information Office, Department of Planning and Economic Development, P.O. Box 2359, Honolulu, Hawaii 96804.

Geographer Lee S. Motteler provided information regarding the New Pacific Map.

Tnx LERC ARC BULLETIN

THE RaRa Rag 20 YEARS AGO — FEBRUARY 1965

by Ed Gable, K2MP

A color film, "Photography at Work", is the featured program for the September meeting to be held at the Farm and Home Center. The film is unusual in that it shows gas flow inside a combustion engine, a cake baking — from inside the cake, aerial mapmaking, and other interesting photo techniques.

The Hamfest Committee is busy planning for the May 22nd event scheduled for Vince's Fifty Acres. RDXA members were highly entertained when Sax Ringler, W2SAW, presented his European DX slide show. Roger Bettin, WA2HOK, and Elmer Schwitek, K2LAF, will visit Europe, Africa, and the Middle East and will operate as much as possible during their separate travels. K2JGG/JY was the prize catch by most RDXAers.

The VHF Group was very busy with the just completed ARRL VHF Sweepstakes. Conditions were very poor with only ground wave contacts for the most part. Bob Jeffers, W2ALL, is scheduled to report on VHF SSB activity and will demonstrate his new Six Meter SSB rig.

A partial listing of new Novices from RaRa's Code and Theory Class include such notables as: Bill Gaines, WN2QVB; Don Hassett, WN2QVD; Chris, Phil, and Rosemary Hazen; Florence Kirkbright, WN2QXB' and Ed Maher, WN2QUN. A new listing in the RaRa Directory is Richard Koehn, WA9FRT.

A new advertiser is Carrier Wave, Inc., a PCB kit manufacturer.

PUBLIC SERVICE '84

by Ed Holdsworth, N2EH

I reported that our last activity for the year was the Downtown celebration to Light the Lights. Several members turned out to assist with the operation. The high spot of the evening was the arrival of Irv, AF2K on stage, accompanied by Santa Claus, in the Rochester Fire Department Snorkel truck.

It was also a special event for RaRa when Jim O'Brian, K2UDP, Vice-President at the Chamber of Commerce presented a very handsome "Thumbs Up Award" to RaRa for our participation in this event. I had the honor of accepting this award on the platform that was set up on East Main Street at the Liberty Pole for this event.

FOR SALE — HQ170A-VHF- 160 to 2 meters — \$155. Viking II- AM-CW transmitter with 122-VFO — \$145. Call W2WQV, 377-7401.

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AMATEUR RADIO EXAMS 1984

by Albert G. de Blieck, KW2X

The first year of Amateur Radio Exams by our own VEs has been successful and at the beginning of the new year we want to inform you how well the program really is working.

The following amateurs are currently members of the Volunteer Examiners Team (VET):

John Schooley, K2NC, VE and Team Director

Joe Hood, K2YA, VE

Len Cataldi, N2HS, VE

Ed Holdsworth, N2EH, VE

Dick Critchell, KY2Y, VE

Jim Collinworth, N2JC, VE

Ron Jakubowski, K2RJ, VE

Albert de Blieck, KW2X, VE and Team Contact Person (Secretary)

The first time we administered exams this year was during the Rochester Hamfest on May 18. During this session 126 applicants took 151 Amateur Radio tests.

After that we established 3 more dates for 1984 and registered these dates with the VEC. (The VEC has to register these dates at least 30 days prior to the date of the exam with the FCC. The VEC also needs that much time to send the test material to the team Director.)

On September 22, 13 applicants took 18 exams.

On November 3, 13 applicants took 21 exams.

On December 8, 21 applicants took 33 exams.

In total for the year we examined 173 applicants who took 223 tests. (Several applicants took more than one test.) 121 tests were passed which is a passing rate of 54%.

Ed Holdsworth, N2EH, wrote in the December *Rag* that in the two current RaRa license classes about 70 people are in attendance. That is GREAT. We hope to see all of them in one of our next sessions.

RaRa EXAM DATES

Saturday, February 23, 1985

Saturday, March 30, 1985

Saturday, May 18, 1985

Sunday, May 19, 1985

The last two sessions are planned in conjunction with the Rochester Hamfest.

Times: 20 wpm code 9:00 a.m.

13 wpm code 9:30 a.m.

Written exams only 10:00 a.m.

Location of tests: Monroe County Social Services Building, 111 Westfall Road at the corner of West Henrietta Road (Route 15) and Interstate 390, except the last two sessions, which will be held in the Dome Arena (Rochester Hamfest).

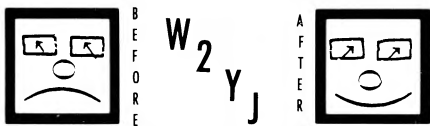
The charge for taking an examination is \$4.00 which must be paid on the day the test is taken. Please make all checks payable to Metroplex/VEC. You need to bring a copy of your current Amateur Radio license (if you have one) plus any code credit certificate or temporary operating certificate along with two forms of positive identification. We request 30 days pre-registration. We will allow walk-ins if space and testing material is available. **HOWEVER WE FEEL IT IS REASONABLE TO REQUEST CANDIDATES TO PRE-REGISTER TO ALLOW THE VEC AND THE VE-TEAM TO PREPARE FOR THE TEST SESSION.**

Send all correspondence, including pre-registration to A. G. "Albert" de Blieck, KW2X, 59 Bay Knoll Road, Rocheter, New York 14622 (716-544-3730). He is the contact person for the VE-team and will return your S.A.S.E. the same day with a new 610 form in it.

All test are RaRa sponsored and taken under the direction of J. L. Schooley, K2NC, VE-Team Director and coordinated by METROPLEX/VEC.

Albert, KW2X

COMMERICAL COMMUNICATIONS



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Call 716-684-3562 after 5 p.m.

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George L. Krickovich
47 Wren Avenue
Lancaster, NY 14086

S.E.T. '84

by Ed Holdsworth, N2EH

The annual Simulated Emergency Test for 1984 commenced at 0830 on 20 October with the crash of a twin engine Cessna Aircraft into the Pennwalt Pharmaceutical plant on Jefferson Road. The scenario developed as various organizations were called out to aid in the rescue efforts and to assist in setting up and operating the evacuation centers and command post. Several highways were closed to traffic due to heavy smoke and to assist in rescue efforts. All area hospitals were notified to expect casualties.

This was the scene as members of ARES/RACES were called to set up and operate at the various locations. We either operated or simulated operation from K2JD, the Command Post at the scene, all area hospitals, MCC, Sperry H.S., Roth H.S., and Pittsford-Sutherland H.S.

We had twenty-four operators that operated from the actual locations and five that simulated operation. All locations received and originated traffic, both formal and tactical as well as testing operation from some hospitals that had installed new equipment or relocating existing equipment.

I want to thank all those that participated in this years drill and made it success that it was.

STRANGE DOINGS IN NIAGARA

The pixies who publish FEEDLINE, the magazine of the Niagara Peninsula Amateur Radio Club, record in a recent issue an exchange in an advice column headed Dear Ann Tenna between Ann and 'Newcomer' concerning the ability of a camel to travel from St. Catherines to the canal (Welland) in eight days. Newcomer suggests that the club buy the camel and rent it out to members with water in their basements (a camel can suck up 20-30 gallons at a time!!). Ann replied that someone named Peter had obtained the camel with the intent, it being a Bactrian camel, of renting it out to near-sighted members of the Dolly Parton fan club. In a postscript, Newcomer complains of lack of respect for an earlier letter concerning a serious problem, 'the absence of belly buttons on dogs.'

Obviously, our Niagara counterparts have been running their feedlines through the vineyards. This is all very confusing to clear-eyed, healthy-body, sound-minded Ottawans.

Tnx GROUNDWAVE (OTTAWA, ONT.)

FOR SALE - 5" Heath Scope, new CRT, Electronic Switch for dual trace, 3 new probes. Heath Signal Tracer AF/IF. All Excellent Condx. \$25 or BO for everything. John Remsen, W2ZHB.

ATLANTIC DIVISION STAFF MEETING

by Ed Holdsworth, N2EH

Hugh Turnbull, W3ABC, Director, Atlantic Division convened the first of what is to become a regular event. The meeting was held on November 10 and 11 in Scranton, Pennsylvania. I had the honor and pleasure of being invited to attend in my capacity as Affiliated Club Co-ordinator for the Western New York Section.

This meeting was called to acquaint the Division officials with activities at the League and to forward information from the field organization to League headquarters. Several topics were on the agenda and were discussed by those present. Some of the topics of discussion were – Amateur Radio growth, How to increase League membership, Frequency Co-ordination, Insurance for ARES members, Labor Relations at ARRL headquarters, Field re-structure and Advisory committees and Hamfests.

I think that we have a very active Division and Section and now with the field re-structure there are several different avenues to follow in order to

THE NEW YORK TRAINING NET WANTS YOU

by John Kasprzak, KA2UBX

The New York Training Net will hold its first session on February 4th, 1985 on 3729 khz at 8 p.m. local time.

The net will offer a training course in traffic handling. The course will consist of 49 messages to be sent to the students over the air.

The NYTN will meet Monday through Friday.

The NYTN needs help. We need volunteers for net control, instructors, and liason to either the Western District Net or the New York State Net. We also will need checkins and students.

If you can help, please call John, KA2UBX, at 288-4443 in the evenings.

be heard at League Headquarters. I will also remind you that RaRa was one of the first clubs in the country to apply for and be approved as a Special Service Club (SSC). This is an indication of our commitment to the Future of Amateur Radio.



ATLANTIC DIVISION STAFF MEETING

Scranton, Pennsylvania

November 10, 11, 1984

Calls for those in picture from left to right:

WA3PZO	K2PR	K3HWL	Front Row W3ABC	KA3A	WA2PUU	W3FA	
K3TX	W2BCH	N2EH	Back Row W2MTA	W3WM	W3TI	W2HX	W3ZXV

LIFE RADIOTELEPHONE CERTIFICATES AVAILABLE

In a December 21, 1984 Public Notice, the FCC announced that a special lifetime General Radiotelephone Operator License Certificate will be available in 1985 for anyone holding a First Class, Second Class or General Radiotelephone Operator License issued or renewed between January 1, 1979 and June 14, 1984. The Commission will eventually discontinue issuing diploma-form General Radiotelephone Licenses and replace them with a card-form lifetime license. Certain license holders are being offered an opportunity to obtain a diploma-form lifetime license.

If your license was issued before January 1, 1979 and has not been renewed since, do not apply for the special certificate. You may, however, renew your license within five years of its expiration date by submitting FCC Form 756 to a Commission Field Office.

If your license was initially issued or renewed after June 14, 1984, do not apply. Your license is already a lifetime certificate.

To receive your special lifetime license certificate, you must send your request to the same FCC Field Office that issued your last license, whether it was a renewal or an initial license. Include your name as it appears on your license, your date of birth and your license number. Write the words "Lifetime License" above the Field Office's address. If your present license has an endorsement, you must submit a copy of that license with your request.

The Commission asks that you enclose an SASE with your certificate request. The SASE should be at least 4½ by 9½ inches with the appropriate first-class postage. If you want your certificate delivered unfolded, enclose a 9½ by 12 inch SASE.

Tnx ARRL Letter

READING ABOUT RADIO

Offhand you might think that the best way for Young Squirts to learn about electricity and ham radio is to read everything they can lay their hands on about the subjects. Trouble is, there is too much plain baloney being foisted on the public nowadays by writers who don't know what they're talking about.

F'rinstance – the May issue of a national science magazine said, "Electricity does not travel through a wire. Rather, it follows a magnetic field that surrounds it." Somebody read that in a book about RF current and by their own

RADIO NETHERLANDS TO CONDUCT AMATEUR OPERATION WITH NEW BROADCAST ANTENNAS

During the third weekend in February, Radio Netherlands, a commercial shortwave broadcasting station, will connect two amateur transmitters to antennas at their new Flevo site. One transmitter will be connected to a non-directional antenna, intended for European reception. The other will make full use of the giant curtain arrays at the Flevo shortwave transmitter site. The direction of the beam will follow the pattern of the regular English language broadcasts of Radio Netherlands. The operation will take place from 0600 UTC Saturday February 16th until 1800 UTC Sunday February 17th, and will use the call PA6FLD. Signals will be beamed to the East coast of the U.S. at 0230 UTC, and to the West coast at 0530 UTC. A special QSL card will be sent to all those submitting correct reception reports, and amateurs will be able to talk directly to the operators at the station. Operations will be conducted on phone and CW.

Frequencies for the amateur operation will be announced on the Radio Netherlands program "Media Network" which is transmitted on Thursday evenings on 9590 and 6165 kHz for the East coast of North America, and on 9715 and 6165 kHz at 530 for the West coast.

Tnx ARRL Letter



Amateur Radio News Service

authority extended it to currents of all frequencies, including DC. A June issue of another popular national magazine, in response to a reader's question, said, "Yes, it is advisable to unplug your electric toaster when not in use because current flows through the wires to the power switch on the appliance even when it is not in use." That writer must get awfully tired going around pulling the plugs on lamps, TV's, microwaves, electric stoves, etc., because if his rule applies to toasters, it must be true of everything else! . . .

Tnx THE GROUND WAVE, St. Paul, MN

BE AN AUTHOR FOR THE RAG

Edited by Ronald Jakubowski, K2RJ
Originally by Gordon MacKay, VE3JMT,
Editor, THE GROUNDWAVE

Why, you might ask, does the Rochester Amateur Radio Association spend time and money on *The Rag*. It is a bother to a lot of people who might otherwise be on the air a few more hours each month or be happily engaged with their soldering irons on a favorite project. *The Rag* is expensive to prepare, to print, and to mail.

On the positive side, however, *The Rag* fills a communication gap. *QST*, *73*, and other national periodicals cover the larger aspects of our hobby at the expense of passing over the specifics of the local picture. *The Rag* and similar club papers and news sheets round out the local picture with published minutes, advance publicity of scheduled events and an intimate record of fellow club members with their successes and difficulties as events unfold.

The Rag also provides a forum wherein the more experienced members of the club can explain how to circumvent the problems that beset every new amateur, how to get the best out of their equipment under difficult conditions, how to get along with the neighbors, and perhaps best of all, how to stretch available pennies.

So, here and now, is an appeal to you to provide a helping hand to the readers of *The Rag*. Sharpen your communication skills and savor the pleasures of authorship by becoming a contributor with a by-line. Unsuspected rewards await your efforts.

Apart from immediate recognition from fellow Club members, there is a good chance of your article being picked up by other club papers and thereby extending your recognition far afield. You may expect to see copies of your article appearing on the bulletin board at work. You can also expect direct discussion with others who may or may not agree with your dissertation. In any case, in the doing, you will profit from the practice and the experience. The return in personal satisfaction and sense of achievement far exceeds the small expenditure in time of preparation.

So, how do I become an author?

Well, simply put, you become an author by being one. In the doing is found the learning. Rest assured that authorship is a learned skill. There are few born authors; but there are many who have become competent word handlers through trial and error. What follows here are some suggestions for the would-be scribe.

As sure as you hit print, you will be criticized. Welcome the criticism, then weigh it. If the criti-

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(AT BULLS HEAD)

cism is valid, learn from it and grow with it. If the criticism is unfair or uninformed, ignore it.

Aim for simple, uncluttered writing. Use a vocabulary that is familiar to the reader without being cute or clever. Skip the humor until you acquire control over your material. Concentrate on producing a piece of "easy readin".

Easy reading doesn't come from easy writing very often. Writing is hard work. Most people who write for a living should be called re-writers since their first draft is usually just a beginning to be worked and re-worked until they get it right. There are methods, fortunately, which can help one reach a useful product quickly.

Start by making some notes. At the top of your note paper, try to express your theme in a single sentence. For example:

"This is a set of instructions for building a simple two element tri-bander" or:

"Operating finesse makes more friends than does brute power".

By stating your theme in this manner, you are less likely to wander down irrelevant side streets.

Next, write a note to yourself describing the audience to whom you are addressing your message. You might write something like this: "I am reaching toward the new amateur who does not

AUTHOR

(Continued from page 8)

have formal electrical training”, or “I am addressing the amateur who is jaded with the popular HF and VHF bands and who would like to explore the world of satellites”.

At this point, you are ready to expand your main theme statement into a band of sub-themes. Each of these sub-themes will become the key statement for a paragraph or two; but first they must be assembled in a logical sequence for presentation. Let's just group the sub-themes into sections identified as beginning, middle and closing.

In the “beginning” section, we will introduce the subject and the vocabulary to be used. The intent of the article will be given so that the reader can see where it is going. Specialized meanings should be identified and unusual vocabulary introduced. It is not a bad idea to set boundaries early by noting aspects of the subject not being covered for one reason or another.

In the “middle” section, the writer gets down to the business at hand. Having set the goals, introduced the subject, established the audience, the instruction or information can proceed.

In the “closing” section, the writer sums up what has been covered and reinforces the new information with a brief review of the salient points. A suitable balance between parts for this type of article might be to devote two thirds of your space to the main or middle section and divide the remaining third between the beginning and the closing.

You will note that to this point we haven't started writing. But this type of planning will make the writing task flow much easier. This is a good time to call the editor for a reaction to the piece that you have been planning but which you have not yet begun to write. Tell the editor what you have been doing and ask him for points to be stressed. Ask how much space can be spared for the piece and find out when it might be scheduled. Find out definitely when the editor must have the piece for assessment. Then re-do your notes.

When your notes are in the order in which you will present the piece, go ahead with the first draft. At this point, do not worry about the niceties of spelling or punctuation. Don't worry about the exactness of figures or formula. Put down whatever seems reasonable to you at the time and draw a circle around your guess for later checking. The object at this point is simply to produce a first draft to be corrected and polished word by word and sentence by sentence.

K2JD ENGRAVING

P.O. Drawer G Pittsford, NY 14534

CALL SIGN BADGES

Size • Up to	Cost
3/4 x 3 (1 line)	\$1.25
1 1/4 x 3 (2 line)	\$2.00
2 x 3 (3 line)	\$2.25
2 x 4 (4 line)	\$2.75

Base station sign

2 x 8 (2 line)	\$3.00
Walnut base	\$3.50
Plastic base	\$1.50
Clip fastener on badge instead of pin add 25¢	

RUBBER STAMPS

Design your own stamp using the sample type sizes shown below. \$2.50 for three lines. Add 50¢ for each additional line.

36 PT

24 PT

18 PT

12 PT

10 PT

8 PT

Most color
badges are
in stock.

ARRL sig
on stamp
or badge
add 50¢

Select a simple direct title based on your main theme. Sample titles related to the sample themes given earlier might read, “Building a Two Element Tri-bander”, or “Operate With Style”. Under the title, write “By Your Name VE3ZZZ”.

Finally, type your article double spaced with good margins on standard letter sized white paper. Pass the article without delay to the editor.

Oh yes, one thing more! You are now an author, so get to work on the next piece. Authors can't hang around basking in past glories.

FOR SALE – Hallicrafters SX-117 rec, HT-44 xmtr. Good condition can operate any time. \$250.00 or BEST OFFER. Call 288-0920, Steve Sykes, KA2KGM.

ESTATE SALE

All Proceeds to be Donated to the RRRR
Repeater Controller Fund

- * HP-608E Signal Generator, 10-480 MHz, AM modulation with calibrated attenuator.
- * Tektronix RM-16 Oscilloscope (with spare CRT), 10 MHz bandwidth, triggered sweep.
- Syncroscope Spectrum Analyzer Model TSA-S/TSA-SX, 910-4560 MHz (Microwave/Radar).
- Dumont 303-A 5" Oscilloscope.
- Boonton 240-A Sweep Generator, 4.5-120 MHz.
- Precision Series ES-500A 5" Oscilloscope with probe set.
- * Hickock 534-B Tube Tester.
- * Variac, 0-135 volts at 5 Amps.
- Radio Receiver R-278B/GR.
- VHF Fixed-tuner receiver Type RV-4 (2-ea).
- VHF Fixed-tuner receiver - Collins type RUQ.
- VHF Remote tunable receiver - Hallicrafters type RUP.
- Radio Receiver BC-639A type 5032A.
- UHF Transmitter type FA 7841 (2-ea).
- Communications Receiver type RCQ.
- Receiver, R-748A/TRC-47.

(*) Items are available to see locally. Items will be sold for the best reasonable offer. All items have manuals and are believed to be in operating condition. Contact Don Taylor, KB2BU, 109 French Road, Rochester, NY 14618, (716) 586-3158.

FOR SALE: Heath SB-101 Transceiver, SB-630 Console, Shure 444 Mic. \$375 or best offer. Call Wally, W2PG, 865-2606.



WOULDN'T IT BE WONDERFUL IFBen Franklin and Sam Morse could see the mess they started? If ham shack's weren't hot in summer and cold in winter? If some repeater ops would lose their false teeth for one night? If 'phones could be put on with one hand?

Gab Gabbler gives many a pain;
His routine is darned near insane.

Each topic he'll work -
Not just once, the jerk -
But again and *again* and AGAIN!

We sign as we file past the bier
Of lynched OM Gadgets von Schmeear

Who, taking a snooze,
Kept calling CQ's
With a hung-up programmable keyer.
(W9BRD, QST)

RAG ADS FREE TO RaRa MEMBERS.
(non-commercial)

FOR SALE : Drake T4XC, R4C, Power Supply, Speaker, Cables. Like new condition. \$300 package only. Herb Haddleton, WA2MST, (716) 225-4565.

FOR SALE:

Heath IO-4550 Oscilloscope	\$300
Heath CI-1080 Exhaust Gas Analyzer	\$ 40
Escort Radar Detector	\$145
Heath ET-3400 Microprocessor Trainer	\$100

Call 427-5729.

FOR SALE: Hallicrafters SX-117 Receiver \$175 or best offer. Call Wally, W2PG, 865-2606.

FOR SALE - VIC 20 computer with joystick and some game software and data recorder. \$50
Heath SB-201 amplifier 20-80M. Like new \$350. Call Jim, KA2FFE, 266-6494.

FOR SALE -

Heath SB-101 Transceiver	\$300.00
Includes: SB-600 Speaker with P.S.	
SB-630 Station Console	
Shure 444 Desk Microphone	
Hallicrafters SX-117 Receiver	\$150.00

Wally Kincaid 865-2606 after 5:00 p.m. or week-ends.