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ORANGE COUNTY AMATEUR RADIO CLUB

VOL. XXVIII No. 2

P. O. Box 3454, TUSTIN, CA. 92681

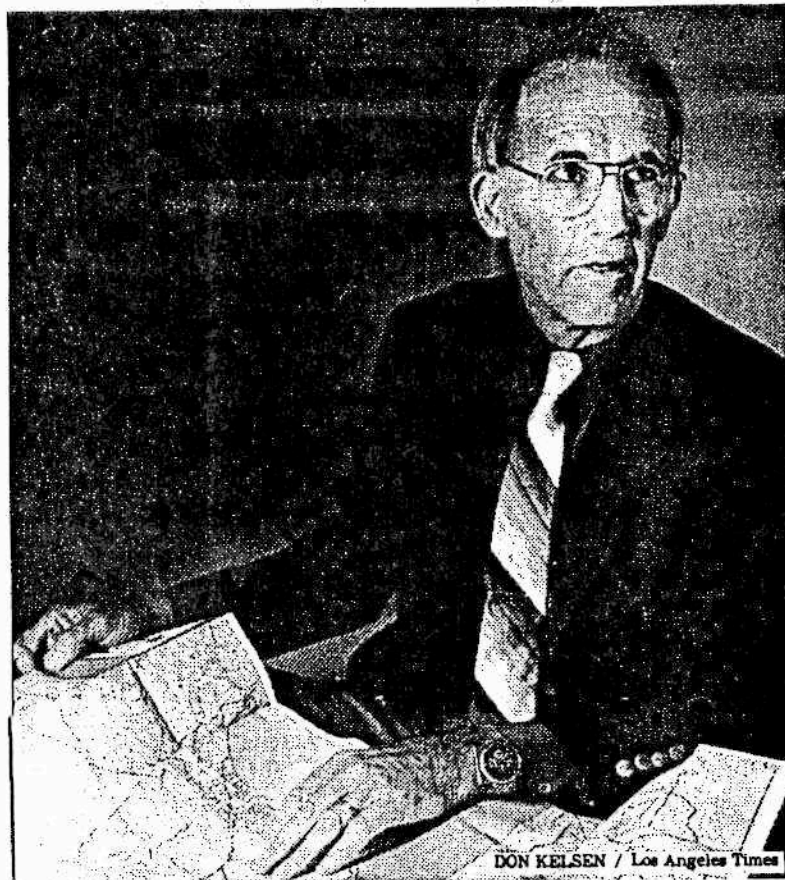
FEBRUARY 1987

NOTED ADVENTURER IS ON FEBRUARY PROGRAM!

World traveler Maurice A. (Al) Enderle is slated to speak at the Friday, February 20 meeting of the Orange County Amateur Radio Club.

He is presently preparing to search for lost treasure---70 tons of silver bullion said to have been aboard a sunken steamer buried since 1879 in the muck of an Owens Valley lake.

Of particular interest to Hams is his method of locating buried treasure; he flies the suspected site and pinpoints the spot with airborne electronic and photographic equipment. **DON'T MISS THIS ONE!**



DON KELSEN / Los Angeles Times

Sunken Treasure to Be Sought

By LANIE JONES, *Times Staff Writer*

For nearly two years, a Tustin shopping center developer has been preparing to search for lost treasure—70 tons of silver bullion said to have been buried since 1879 in the muck of an Owens Valley lake.

Some state officials doubt there is any bullion in the lake, but next month, if the State Lands Commission approves the venture as expected, Maurice A. (Al) Enderle plans to construct a 40-square-foot wood platform at a secret location on the lake bed, fly his equipment to the site by helicopter and begin probing the slimy, green lake bottom for 50- to 100-pound silver bars that he believes could be worth as much as \$10 million.

Enderle spoke cautiously about his treasure hunt, arguing that if many details become known, "it's like having a bank vault open where there are no guards."

If his prospecting site becomes widely known, his crew of six "will have to be armed,"

he said. "You know fever? All you people will go be

If Enderle's effort joins one other massive cache of silver. Commission gave a Nev., permission eastern edge of Enderle's site.

Although some both treasure hunters Molly Stevens, a and silver across Cerro Gordo Mir 14 people on board feet of water. At Owens River was Angeles, Owens' mud flat.

1987 CLUB BOARD of DIRECTORS

President	Jim Talcott	N6JSV	838-5395
Vice President	<open>		
Secretary	Jeanie Talcott	KB6E2S	838-5395
Treasurer	Ken Konechy	W6HHC	541-6249
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T.V.I. Chairman	Frank Smith	WA6VKZ	492-3218
Member at Large	Kei Yamachika	W6NGO	538-8942
Member At Large	(Past President holds another position)		

CLUB APPOINTMENTS

Club Historian	Bob Evans	WB6IXN	543-9111
W6ZE Trustee	Bob Eckweiler	AF6C	639-5074
R.F. Editor	Bob Evans	WB6IXN	543-9111
Teen Representative	<open>		

CLUB FUNCTIONS

MONTHLY MEETING: 3rd Friday of each month, 7:30PM at:
MERCURY SAVINGS & LOAN
1095 Irvine Blvd. (4th St becomes Irvine)
Tustin, Ca. Talk-in on 146.55 MHz

Feb 20th

Mar 20th

Apr 17th (Take the 4th St. exit to the 55 FREEWAY
and head east. Continue about two blocks
past Newport Blvd. on the left.)

CLUB BREAKFAST: 1st Saturday of each month, 8:00AM at:
MIMI's CAFE
17231 17th Street
Tustin, Ca. (714) 544-5522

Mar 6th

Apr 4th (55 FREEWAY at 17th Street east.)

CLUB NETS

BAND	MODE	DAY OF WEEK	LOCAL TIME	FREQ MHz	OPERATOR
2 Meters	FM	Wednesday	2100 hrs.	146.550	W6HHC
15 Meters	SSB	Wednesday	2000 hrs.	21.375x	AF6C
15 Meters	CW	Thursday	2000 hrs.	21.175x	WB6IXN

(Listen for W6ZE, net control) XPlus or minus GRM

*** AT LAST MEETING ***

Wyatt, BPX, was 40x2+1 yrs. old on 22 Jan. NGO XYL, Ida, after minor surgery Monday, recieved a clean bill of health! Our speaker, Jack Cadman, outlined famous criminal Orange County cases that were solved through use of lab science, followed by a question & answer period. . . .Our four visitors were: Howard Atwell KA6CZI (past Secy '81, Publicity '82); Dan Dankert, KB6MZM; Don Rabbitt, WA6SOJ; and former Pres. Martin Raymond, WB6PEX. . . . Bob Evans announced that the CW net will meet on Thursday eves. at 8:00 pm. . . .Treasurer's report was given by HHC. Bob Eckweiler will be handling the mailing of "RF"WE STILL NEED A VICE PRES! HOW ABT YOU!! Jim announced our winning of the Field Day Trophy and AF6C, Bob, was presented wid the 'Good of the Club' award. Frank Smith, VKZ, was absent and did not receive his 'gavel'. It will be presented next month. IXN will display other club's newsletters at each meeting. IXN also displayed Christmas 'montages' of our last Christmas party. . . .JSV adjourned the meeting at 9:30 pm. (Jeanie EZS, Secretary)

*** ON THE NETS ***

1/4 15m CW net - IXN checks in Karl, IEH. We thought AF6C might join us, but nothing heard from up Orange way. However, Dan Dankert, KB6MZM checked in. Dan's OM, Roger, N6EGC, was a club member in 1982! Karl complimented Dan on his accurate CW. Dan, 16, is a Junior at Lutheran High School. He was an SWL at the age of 4! Karl didn't do much on the weekend but set back and watch the rain. Lightning & thunder! . . . We sign off the net & Dan & I continue discussion on landline. Roger & Dan both helped out at FD, 1981. Dan's adr: 13672 Fairmont Way, Tustin, 92680. . . .1/7 15m phone net - AF6C checks in IXN, NG7D, BZW, Jim Brown, and RE. Glad to have Jim wid us! John had to take his Regency 7000 back to 'sick bay' agn! AF6C gets our thanks for printing & distributing 'RF' for Jan! John works alaska on 40m CW at 3wpm! . . .his 1st contact for the year! AF6C needs more room in the shack, then he'll join us on 15m CW! Jim tried out his new toy. . . an IC-735. Sounds goodm Jim! Jim is also job hunting. AF6C will attempt to have 2 m. covered and reported to IXN for 'RF'. Earthquakes & MARS funding for equipment-update were other net topics. . . .1/7 2m phone net - AF6C acts as net control. HHC is out of town. JSV comes on the air wid his new Kenwood 215A handheld! Welcome, Jim! AF6C also checks in RE, who gave the westlink tapes. Other checkins: MIL, and NG7D. . . .1/11 15m CW net - IXN checks in Karl, IEH, and Dan, MZM. Dan will be at meeting Jan. 16. Dan sent his 940 & 430 in for servicing so he is operating an Argonaut. Dan QRTs to study Physics. Karl has been a member of the Orange County Astronomers for sometime. He has a telescope pad at the Observatory site. He & his neighbor just built an 8" Newtonian refractor, having ground, figured, polished and silvered their own mirror! Karl & IXN discussed the new 300,000 lt. yr. diameter clouds just discovered in space. . . .1/14 15m phone net - AF6C checks in ULU, NG7D, GDZ, IXN, COJ, & RE. Good net, OM's let's keep it going! Ken, HHC, was on the side. High SWR kept him from joining us! John will once again pick up his MX-7000 (after bench testing, he hopes!). COJ & IXN will investigate colored 'logo' for 'RF'. RE is playing wid an electronic typewriter, while waiting for the end of the cold WX to plant a lemon tree. AF6C buys a Heathkit 'Active Antenna' for the rig. John, NG7D, has one & likes it vy much. ULU, RE, COJ, & IXN are all retired! RE tells NG7D abt a new novice at Vet's Hospital. . . .1/18 15m CW net - IXN checks in MZM, IEH, & WA6SOJ Don (whose XYL is N6UC's daughter). Nice to have you wid us, Don! IEH got a phone call from work & had to sign off. Dan had finished all his homework. Dan mysteriously disappeared from the air! (got a call from grandpa!) SOJ lives in Yorba Linda & was at our last Club meeting. He has a longwire ant. IEH asked Dan if he had his WAS (ask agn later, Karl). IXN informed all that the CW net will now be held Thursday eves. same time. . . .1/21 15m phone net - HHC appears at the shack of AF6C and opens the net to check in NG7D, IXN, COJ, LAB, & KD6XO, a gud turnout for 15m! IXN

leaves the net temporarily to check on possible robbery of a neighbor! NG7D, John, gets his ailing MX-7000 back from surgery. 'Doctors' repaired the phase-lock loop circuit! IXN finally gets back from his false alarm to pick up conversation abt Finland, Germany, France, Switzerland, the UK, Belgium, Czechoslovakian beer & New Zealand beer!! Seems that HHC will soon have a business trip to these countries. But AF6C & HHC are whetting each other's taste buds wid the above mentioned 'brews', adding 'flavor' to the 15m net! LAB joins us after loading the ant on 15. This is our 2nd 'John'! Look out, Bob's! Competition's increasing! Vacationing XO joins us after returning from Norco, the XYL, and the horses....

1/21 2m beer net, er I mean...2m phone net - Yes, you guessed it! HHC & AF6C reach into Bob's private cache & pull out French " ? " beer and a Denmark "Carlssbad" beer. However, HHC was unable to pass the 'taste' over the air as he checked in BPX, NG7D, JSV, and XO. To get in on the fun, you'll have to join the 2m OM's on Wed. eves at 9:00pm, just after the 15m phone net!...1/22 15m CW net - Yes! The net is now held on Thurs. eve. at 8:00pm., same freq. 21.175. IXN, net control, checks in MZM & LAB, John, (Nice to have U wid us, John!), & ULU, Lloyd. As ULU promised, he checked in on the net! However, MZM was the only OM who cud hear Lloyd well. So Lloyd QSP'd to Dan. Hpe to have U wid us next Thur., Lloyd. LAB needs a manual for the Collins 51 J. Question: Who did John talk wid (has to be a Bob) at last meeting? Was it you, AF6C? LAB was using an old Navy straight key. IXN doubted he cud still send wid one!! We missed IEH tonite....1/28 15m phone net - The net was informal. COJ called IXN & the rag-chew commenced! COJ brought IXN up-to-date on the 'RF' logo. Frank O'Leary, TBU, wud come to Club meetings if he had a ride to & from. In the meantime, plenty of breakers: LAB, ULU, EUO (Gary), GDZ, & NG7D joined us! A salesman left GDZ a 'jar lid rubber' which makes a perfect non-slip surface for his sliding keyer. COJ has a couple of the same devices & he will give one to ULU for his slipping key. LAB enlightened us on a fire in an apartment complex nearby. NG7D got a long-awaited QSL card frm Bolivia. RE read an ARRL bulletin, dtd 1/21, concerning FCC Docket 86-337, which wud require circuitry for automatic identification of transmitters on the air. ARRL opposes the Docket as expensive & ineffective in the amateur service!...1/28 2m net - AF6C had company & HHC was freezing in Europe!..No net!...1/29 15m CW net - IXN checks in MZM & LAB. MZM just finished his final exams & LAB worked an XE2 station on CW earlier on 40 or 80m. MZM will soon have his 940-S back & he can't wait to use the iambic keyer. Gary, EUO, called LAB on the landline last eve after the 15m phone net, so LAB didn't listen very long for the 2m net. LAB & COJ will be going to the TRW swap meet this Sat. (at 4 am! UGH!) MZM will be going wid his grandpa, W6KII.

ARRL BULLETIN NR 10 dtd 1/30/87: The FCC has acted on the ARRL Novice Enhancement Proposal, PR Docket 86-161. On 1/28, the Commission amended Part 97 to expand Novice privileges to include CW, RTTY and SSB on the 10m Subband, & all emission modes for subbands on the 220 & 1270 MHz bands. We expect power levels are as requested in the original League proposal. The FCC also separated examination element 3 into 3A & 3B, so that Technicians & Generals will now be taking separate examinations. The FCC also omitted the effective date. Monitor W1AW for further info. Also watch the 'ARRL Letter' & QST!

ARRL Bulletin NR 11 dtd 2/3/87: FCC has issued a request for comments on a proposal inquiring if call signs could be issued by the private sector. FCC would only issue one 2x3 call-sign for each new licensee, regardless of license class. This would be from the prefix block NA through NZ. FCC would discontinue processing requests for any call sign changes. All other call signs would be available to a Special Call Sign Coordinator, or SCSC, who would assign one or more supplemental call signs at the request of the licensee. A special call sign could be used

(cont'd. p. 5)

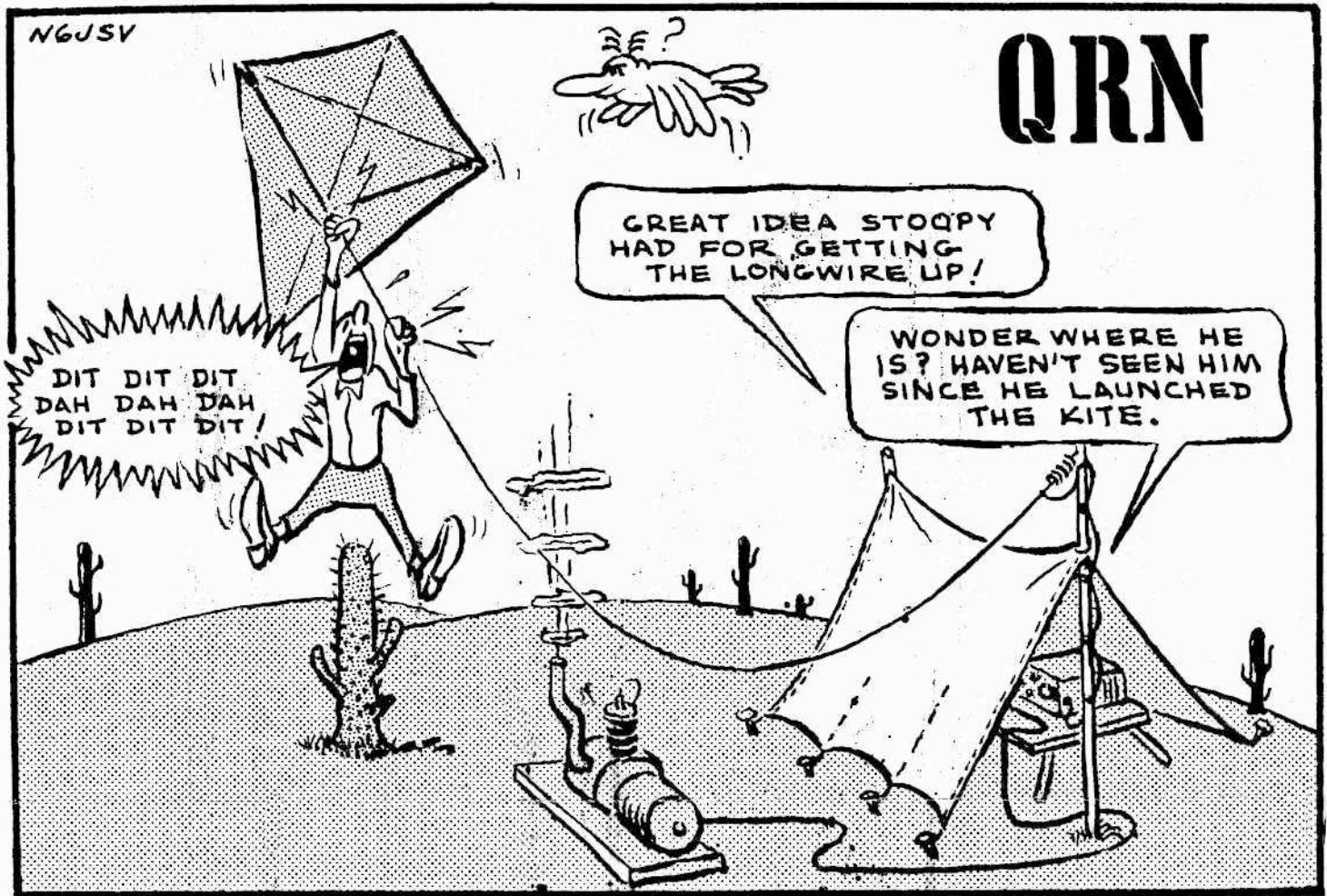
*** ARRL DIVISION SECTIONS ***

With Field Day just around the corner, here is a list of ARRL Division Sections, both Canadian & U.S., as listed in the ARRL 'Field Forum'. It will make a handy reference on Field Day:

<u>SYMBOL</u>	<u>SECTION</u>	<u>SYMBOL</u>	<u>SECTION</u>
AB	Alberta	NLI	New York City-Long Is.
AK	Alaska	NM	New Mexico
AL	Alabama	NNJ	Northern New Jersey
AR	Arkansas	NTX	Northern Texas
AZ	Arizona	NV	Nevada
BC	British Columbia	OH	Ohio
CO	Colorado	OK	Oklahoma
CT	Connecticut	ON	Ontario
DE	Deleware	OR	Oregon
EB	East Bay	ORG	Orange
EMA	Eastern Massachusetts	PAC	Pacific
ENY	Eastern New York	PQ	Quebec
EPA	Eastern Pennsylvania	RI	Rhode Island
GA	Georgia	SB	Santa Barbara
IA	Iowa	SC	South Carolina
ID	Idaho	SCV	Santa Clara Valley
IL	Illinois	SD	South Dakota
IN	Indiana	SDG	San Diego
KS	Kansas	SF	San Francisco
KY	Kentucky	SFL	Southern Florida
LA	Louisiana	SJV	San Joaquin Valley
LAX	Los Angeles	SK	Saskatchewan
MAR	Maritime Newfoundland	SNJ	Southern New Jersey
MB	Manitoba	STX	Southern Texas
MDC	Maryland-D.C.	SV	Sacramento Valley
ME	Maine	TN	Tennessee
MI	Michigan	UT	Utah
MN	Minnesota	VA	Virginia
MO	Missouri	VT	Vermont
MS	Mississippi	WA	Washington
MT	Montana	WI	Wisconsin
NC	North Carolina	WIN	West Indies
ND	North Dakota	WMA	Western Massachusetts
NE	Nebraska	WNY	Western New York
NFL	Northern Florida	WPA	Western Pennsylvania
NH	New Hampshire	WVA	West Virginia
		WY	Wyoming

ARRL Bulletin Nr 11 cont'd: in lieu of the FCC assigned call sign during station ID required by 97.84. An SCSC would be operated on a not-for-profit basis, but would be allowed to recover administrative costs. The preliminary view of FCC: 1) Having 1 SCSC would be a more efficient system in preventing the same call sign from being assigned to different stations & avoiding inconsistencies of assignment. 2) A single SCSC would minimize the number of points of contact

(cont'd. p. 6)



FIELD DAY 1987, is just around the corner, OM's. Time to think abt those FD rigs, stored antennas, L-networks in the bottom of the junk box, and prepare the gear for another FUN DAY in June!!

ARRL Bulletin NR 11 cont'd: between the SCSC & the FCC, holding the administrative burden upon the FCC in check. Written comments on this proposal PRB 3, are due on or before Apr 23, 1987, with reply comments filed on or before May 22.

*** OCARC CLUB BREAKFAST AT NEW LOCATION ***

Beginning Saturday, Mar. 7, we will breakfast at LE GRANDE CAFE, 2525 N. Grand Ave., Santa Ana, just a couple of blocks south of the '22 Freeway. Come join us! A delicious breakfast, an enjoyable ragchew and a 'touch of Paris' awaits you, the XYL, YL s and harmonics!

*** Ohm's Law ***

This month I am going to talk about Ohm's Law. Ohm's Law is really the foundation of almost everything in electricity and electronics, and many of the formulae that we use are derived from it. First of all let me state that it as $E=IR$, or in words, the potential in volts (E) is equal to the current in amperes (I) times the resistance in Ohms (R). Let's take a look at figure 1, and see how we can find the unknown values using Ohm's Law (and also Kirchoff's, but that is beyond the scope of this article). (cont'd. p. 7)

*** BOARD MEETING ***

Following the Club Breakfast, the Board Meeting was held at Jane Watt's residence on Feb. 7. 12 members attended the breakfast. The Board Meeting commenced at 9:50 am., Jim, JSV, presiding. Other Board Members were: EZS, AF6C, HHC, NGO, & Jane. VKZ & MIL were absent. Upcoming Club programs were discussed. (possible Rep. from FCC, and, one of the hams who helped track Vogager on its historic trip around the world). Next discussed, was the upcoming novice/tech training class hopefully in early Spring. Ron, ELP, will put extra 'RF's in various stores. Besides the new Novice privileges, the vacant Vice President's office received Board attention. A Club Pizza Bust was proposed, and Jane will check possible locations for Sat., Apr. 18, in the evening. Under pre-planning for FD, the Board discussed a joint venture wid the Beach Cities Club, to be coordinated by VKZ, Frank. A proposal for taking a picture of each QTH wid operator for the Club History was approved. HHC, Ken, and JSV, Jim will coordinate this activity. Also approved was a group photo of the OM's at Club Meeting for the Club History. The meeting adjourned at 11:10 am. Jeanie Talcott, EZS, Secretary

There is a new breakfast location beginning in March:

Le Grand Cafe
2525 N. Grand Ave.
Santa Ana, CA.

If you haven't been to a breakfast lately, try it!



OHM'S LAW

(cont'd)



* Hint - Put your thumb over the unknown item to find the proper formula.
 $E = I \times R$ or $I = E \div R$ or $R = E \div I$

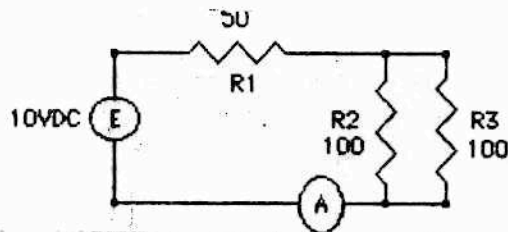


fig. 1

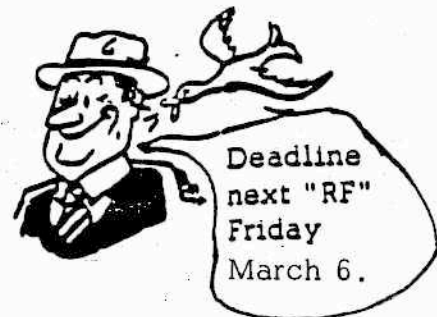
In this case, the unknown quantity is I, as would be shown on Ammeter "A". We know that the input voltage E is 10VDC. The combination series parallel resistance is effectively 100 ohms [$R1 + (R2 + R3 + 2)$]. Therefore, using the formula $E=IR$ and rearranging it to $I=E/R$, we have $I=10/100$, or $I=.1$ Amp or 100ma. Now lets see what the voltage drop across R1 equals. If I equals .1Amp (which it does), and R equals 50 Ohms (which it also does) then using the formula $E=IR$, ($E=.1 \times 50$) or $E=5vDC$. Now that we have solved for the current in the entire network, and found the voltage drop across R1, we can deduce that the parallel combination R2,R3 show a voltage drop across them of 5VDC ($E-E_{R1}=E_{R2}$ or E_{R3}). Now we can find the current through R2 or R3 by applying $I=E/R$. Therefore $I_{R2} = E_{R2} / R_{R2}$ or $I_{R2} = 5 / 100 = .05$ Amp. Since R3 is identical the same values would apply. Now for the challenge! If you change R2 and R3 to 50 Ohms, what is the value of I through the Ammeter "A". The first person to give me the answer will receive absolutely free one 100 Ohm 1/2 Watt resistor, and have their name listed here next month. Next month I'll talk about Power -- Watts to be exact. (Bob Kellogg, N3BHZ)

"RF

ORANGE COUNTY AMATEUR RADIO CLUB

FEBRUARY 1987

FOR SALE: Tempo 2020, excellent condition, 80-10m SSB, CW. Phone Jim Brown at 966-3002!

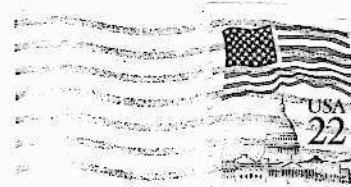


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FIRST CLASS!