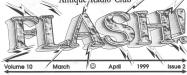
The Colorado Radio Collectors Antique Radio Club





Complete Radio Panels in the Most Attractive Designs

THE FORMICA INSULATION COMPANY
4618 Seringtone Avenue Gincinnati. O.



In this issue ...

The CRC 1999 Show & Sale + Dating Japanese Tubes + Bakelite Panel History +
 All About Capacitors + Index Of Flash Articles + Edison Pans Radio +

AROUT THE COVER

There was a time when building your own radio was the norm rather than the exception - that is if you wanted it to fit a hobbyist budget. So in order to make your homemade or kit radio look as professional as possible it was common to mount it to a great looking Bakelite front panel. Read Wayne's article on page 7 for more about how it was 70 or so years ago.

The Colorado Radio Collectors Antique Radio Club

Meetings: Unless otherwise noted in this journal, regular meetings are held on the second Sunday of exerc other month starting in January (except: 3rd Sunday of May) at 1.00PM at the VectraBank Building, Community Room, 1380 S. Federal Bl. The meeting normally includes business items, discussions, "show and tell", a raffle and a swapmeet.

Membership: All dues are \$12.00 annually. Joining dues are prorated to June 1st. Contact club for foreign rates. Send dues and membership inquiries to the CRC Treasurer, Robert Baumann, 1985 S. Cape Way. Lakewood CO 80227 (303)988-205.

Article Contributions: Submission of articles are always appreciated. This would include historical and technical attems as well as stories about individual collections. Articles may be written or e-mailed, and need ngt be in final form. Submissions and requests for information should be directed to the CRC "Flash!" Publisher, Larry Weide, 5270 E. Assaus (LT., Englewood CO 80110 (303)758-8382 — Inveide@ilbm.net.

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Archives. Charles Brett

Book Sales Colorado Spgs (719) 495-8660

Want Ads: Submission of Sell/Want ads are always free to CRC members. Non-members may advertise in the Flashl for \$0.20 a word. Display advertising is available by contacting the CRC publisher, Larry Weigh for info and rates.

Publishing Deadlines: All submissions must be submitted by the 1st of Feb, Apr, Jun, Aug. Oct and Dec. for publishing in the following months.

Thanks to the Pressworks for printing the Flash! - (303) 934-8600

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Upcoming 1999 CRC Events Regular Meeting - March 14th, Annual Show/Sale April 17th



Colorado Radio Collectors Autique Radio Club

Founded October 1988

Dedicated to the Preservation and Education of Wireless, Radio, Television and Associated Equipment.

Volume 10, Issue 2

March/April 1999

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A CHAT WITH THE PRESIDENT

IT'S SHOW TIME!

by Tom Kelley, CRC President

Hello again fellow club members. Guess what? It's show time again! It's time to get out our prize radios and radio related items and show them off to the world - well, at least to the Front Range anyway.

The event will be at the Denver Collector's Fair in the Stock Show Complex on April 17th and 18th. Setup is on Friday the 16th, starting at 2:00AM. This year we have an awards dinner at Brooklyns at 6:00PM. Let's have a big turnout for this event, and enjoy some good food and radio camaraderie!

This year we are featuring Wards/Airline radios as our specialty brand. I'm sure many of you have some fine examples of this once very popular brand. We'll be looking forward to seeing them. For those of you who don't have Airline radios, don't fret. Without your radios too there won't be a show! Don't forget, there are threatly six other categories available for your show entries.

If you want to sell at this year's show, we would love to have your radios and radio related items on the sale tables. This year we're featuring a single price for a table/space which you could share with a "bud" if you don't have enough items to fill the space.

Let's have a really good turnout this year, as we have a really great variety in our collections to show off.

Tom

The Annual CRC April Antique Radio Show and Sale Everything you need to know to get ready

Yes, it's that time of year again when we dust off, polish up and get our treasures from the past ready to put on display for fun and, who knows, maybe a little profit. Of course I'm talking about choosing those items that we would like to show in our annual contest, and perhaps other items we would like to sell as well.

As in past years, the Show Committee met in January in order to review the past shows and determine what parts of this activity needed changing to hopefully make this year's show even better. The following is the complete packet of information you will need for this year's show and sale.

Location: The Denver Stock Show Complex - North Building
Date: Contest April 18. showing and sale April 17 - 18

Contest Categories:

 Accessories
 Metal Case

 Art Deco
 Novelty - Transistor

 Bakelite
 Novelty - Tube

 Battery - 1926-1930
 Plastic - Tube

 Catalin
 Portable - Pre 1926

 Cathedral
 Portable - Post 1925

 Classic Audio
 Pre 1925

Console - Full Length Specialty Brand - Wards/Airline
Console - High/Low Boy Television

Console - High/Low Boy
Console - High/Low Boy
Console - High/Low Boy
Console - High End
Console - High End
Tombstone
Transistor
Metal Box - 1920's
Peoples Choice *
Wooden - Line Powered
Best of Show **

^{*=}Popular vote by public **=Popular vote by CRC members

Judging Criteria:

- Internal Condition
 - · External Condition
 - Rareness Meaning relatively few are in existence
 - Uniqueness Meaning novel, and not many like it
- Presentation Meaning how well displayed, supporting documentation, descriptions, etc.

As in past years there will be emphasis, by virtue of the criteria weighting, on an entry's condition. The idea is to allow radios of all ages and collector value to be able to compete fairly. Thus, collectors who have given time and care to restoration and/or cleaning to any of their radios should not hesitate to consider entering them in the contest. The show is only successful when there is abundant participation by CRC members.

Timetable of Events:

Friday, April 16th - 2:00pm to 8:00pm - Setup

- √ This is the <u>only</u> time that you can drive into the complex to drop off equipment. Enter site at N/E corner, then around to west entry ramp.
 - √ You can setup Saturday, but you will have to <u>carry</u> equipment in.
 - Saturday, April 17th Set up, Registration, Contest and awards

 / 8:00 am Setup and Registration
 - / 9:00 am Complex opens to public, begin selling
 - / 10:00 am Registration Cutoff
 - / 10:30 am Judges Briefing
 - √ 11:00 am Judging Commences
 - / 1:00 pm Awards Posted
 - / 5:00 pm Complex closes for the evening
 - / 6:00 pm CRC dinner commences

Sunday, April 18th - Display and sale continues / 4:00 pm - Complex closes

y 1.00 pm compres

Costs for Space and Equipment Rental:

The stock show complex charges the CRC for the spaces assigned and for each table and chair that is used. The CRC pays for the show space and tables but passes on the cost of those items that are used by the sellers. The cost this year is \$20 for a space and table combination. Sellers may share this cost with each other in any combination.

CRC Dinner Arrangements:

We will continue to have the annual show dinner at the end of the first day of the show. This is a time when we can get together to relax, enjoy a leisurely meal, talk about the events of the day and have the official announcement of rewards. You need not attend this dinner to receive your award(s).

- Reservations <u>must</u> be made by 12:00AM on Saturday with the dinner coordinator.
- > You are invited to bring a guest. Dinner is at 6:00PM.
- > Payment for dinner <u>must</u> accompany reservations since we have to guarantee arrangements to the restaurant, there will be no refunds.
- > Reservations, for a complete 6oz.club steak dinner, are \$12/person.

Content of Judges Briefing:

- Explanation/Review of categories and criteria
- Judging assignments based on membership attendance and judge's own entries
- □ Pairing of judges
- Explanation of entry reviewing and arriving at a judging consensus

Additional Items of Interest:

- Light snacks will be provided by the CRC for attending members.
- Volunteers are needed to watch over displays Sat. & Sun.
 Please consider coming and staying for at least a while even if you're not entered in the contest or selling.
- ☐ You are highly encouraged to wear your CRC membership badge.

 You will need your badge for free exhibitor entry into the building. You will need your badge to receive complimentary CRC macks

A Timely Reminder - please read

Although there have never been any problems, you need to be aware that the CRC does not assume any liability for lost, stolen or damaged articles, brought to this event by anyone, for show or for sale. The Denver Collector's Fair does provide a show-time walking guard and off hours security.



You too could be selling your radios to one of Denver's largest collector crowds - just like these guys!

It's What's Up Front That Counts! Wayne Gilbert, CRC Member

It's what's up front that counts. I'm sure most of us know the tobacco companies weren't the first to come up with that idea, but it may come as a surprise that this saying may have originally been a part of radio history.

Many of the first home radios were a product of the owner's own hands.

True, he (or che) may have found a likely schematic in a favorita wireless magazine, but it was often un to the enthusiast to assemble the parts and actually build the radio Components mounted directly to woodon

boards often represented the novice radio enthusiast's first attempt at radio construction, and some of these sets were certainly built with great skill

at radio construction, and some of these sets were certainly built with great skill and care. Few radio collectors would refuse a chance to buy even a home-brew breadboard of that period.

The jump from the breadboard style of radio to a radio enclosed in a cabinet was not immediate, but it did come quickly. From a practical stand point, it was easier to assemble a radio with a front panel, and the cabinet was not only necessary to protect the set's wiring and components, it also was a convenient.

provide stability to the front panel. Cabinets and front panels also provided a degree of isolation for the tuned

the sets.
Concurr
ent with the
change to

was the surge in sales of the so-called "kit Radios." Companies were springing up all over the country whose specialty was to assemble the necessary parts and



sell them as a ready-to-assemble kit

which was more-or-less guaranteed to

significant or remarkable development to us today, but to the many early radio enthusiasts who had had to track down all the components necessary for even the simplest set and ensure that they were all compatible these radio kits must have been seen as heaven sent.

While some of these radio kits were to eventually become a completed radio in everything but the name, most of the earliest ones did not come with a cabinet or front panel Cabinet makers were quick to seize their opportunity and were soon making several styles of cabinets to accommodate these kits. While many of the cabinets were skillfully made from

the

tended to vary. (This practice of like' components was substituting discouraged when the kit was a house brand. Madison-Moore kits and plans always called for using Madison-Moore IF coils, even when alternatives were available and would have performed similarly)

The average home craftsman's inability to produce a suitably attractive front panel also provided an opportunity for another cottage industry, and by 1922 there were companies who would make a panel to the kit makers specifications. New materials such as Condensite Celoron and/or Vulcanized Fibre

very fine woods. Panels for ANY Circuit appearanc e of the final product was often judged by how well the front nanel fit

Veneer anneared on the market and were designed for the radio builder's needs For instance.

the cabinet in size and style. A major deterrent to this matching of panel and cabinet was that while both the radio magazines and the kit makers found it necessary to provide a layout for an attractive front panel, most specified the radio's components by their electronic value. When a specific manufacturer's components were unavailable, suitable alternatives were often substituted regardless of their physical size, and, as a result, finished panel shapes and sizes

both of these types of panels were made with a concealed shielded wire mesh. which according to the manufacturer would, when, "properly grounded, very effectively neutralizes all howl and de-tuning effects caused by body capacities."

By 1923 the home kit builder's acceptance of standardized professionally made panels was evident in the fact that blank Celoron panels were available in eight standard sizes and you could buy Radion hard rubber panels in 18 stock sizes. The pressure was on the kit designers and providers to utilize standard, "off the shelf" components that would consistently fit their front panel layouts.

This standardization of components used by the kit manufacturers provided the next innovation in front nanels Pre-drilling and engraving of front panels to fit the specific kits and designs became common and "standard black" was no longer the only color available. Hard rubber became known as "Insuline" and the Bakelite Cornoration

entered the market claiming that their experience in the manufactur e of other radio components made Bakelite the product of choice

This claim



panel, and Atwater Kent, who had a long history with other Bakelite products, continued to use a wrinkle finish metal front nanel successfully The Lignole Corporation produced a wood front panel that was very attractive and claimed to meet "all panel requirements," but both the home kit builders and the professional radio manufacturers were finding that Bakelite nanels were hard to compete with for functionality and price.

Also, while the range of innovations in medal and wood panels were limited. the new plastics industry was exploding

with new products processes. and materials that could be used for front nanels One of these Insuline brand nanels manufactured with Mahogany. Ebony. and Frieze finishes and Etch-O-Gravure

designs

was at least in part true, since Leo Backeland had been in the business of producing Bakelite products since 1909 and Bakelite-Micarta panels since 1911.

Of course there continued to be radios with front nanels not made from "plastic" or hard rubber products. Some like Sear's Silvertone Neutrodyne and Showers Brothers' Consola came with a painted or anodized aluminum front Etch-O-Gravure designs could be quite elaborate, and colored either gold or white, and accommodating enough to allow the Insuline company to encourage kit builders to provide their personal artwork and panel designs.

Not to be outdone the Bakelite Corporation produced panels in walnut and mahogany colors with "grain and color so perfect that the eve cannot distinguish them from the natural woods." However, the one thing that Bakelite seemed to lack was pizzazz, because the Bakelite Corporation soon began selling its products under a number of trade names like Formica. Dilecto, Spaulding, and Micarta. Of these, the name Formica seems to have been the most popular with the public and soon Formica panels could be purchased complete with Veri Chromed designs, a process that allowed Formica to be as elaborately decorated as any of its competitors.

By the end of the decade, even the traditional hard rubber company Radion was forced to produce a "mahoganite" colored panel, and who knows what other innovations would have been developed if the buying public hadn't been enticed away by the modern cabinet designs of the 30s. Boxlike wooden and metal cabinets would be replaced by the more stylishly designed, marbleized, mottled and colorful cabinets of a more modern era, and but, to many, there would never again be a radio that could compete with the front panel of Croslev's RFL 75 or Mirago's Ultra-5 for beauty. For them, as well of many collectors today, "it's what's up front that counts," and the front panel is nearly always identified as a Bakelite nanel whether it really is or not

Sources:

Citizens Call Book, December 1926. Citizens Radio Call Book. Fall 1925.

p198 Grinder, Robert. The Radio Collector's

Directory and Price guide. Sonoran Publishing, p 61. Popular Radio. October 1923. p 11. Popular Radio. December 1924. p 153. Radio Broadcast, May 1922

Radio, March 1925, p 51 Radio. September 1925. p 47.

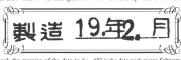
Interpreting Japanese Vate Markings

Larry Weide, CRC Member

Recently I was given a box of tubes by a native born Denverite (who went to school with the son of Doc Reynolds - but that's another In this box were some Japanese made tubes. They are UZ-30MC 6-pin types that look like mid 30's USA designed tubes but with a G type glass envelope.

The most interesting thing about the tubes is the date on the cartons as show below. At first glance I during those historic times. It also turns out that they used dynasty references to mark the beginning of date calculations.

This means that the base date reference used here is 1925 - which is the date that Emperor Hirohito ascended the throne and started a new Japanese dynasty. Therefore, in order to calculate this tube's manufacture date you add "19" to 1925 to come up with 1944.



took the meaning of the date to be 1932, or 1942 or possibly even 1952. In any case I couldn't imagine why they would mix Japanese and Arabic characters together.

Now it happens that one of my nephews is married to a Japanese woman, so I took a digital scan of the tube carton and e-mailed it to Yukiko to interpret it for me. Sure enough, I REALLY had it all wrong.

I was surprised to find out that it was not at all uncommon for the Japanese to use Arabic numbers even "2" in the date mark means February.

The tube itself looks to be fairly cheaply made. It has only one thin mica element support disk at the top, and the element stacks are not lined up very straight. This leads me to believe that it is not a military device. but is an old design kept in long production

I would be interested in hearing from anyone who might have more and/or better information about Japanese tubes.



Olde Tyme Radio Humor



A tip of the hat to Wayne Gilbert for submitting this comic

Capacitors and Old Radios

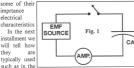
A Series of Articles

hv Dave Boyle in collaboration with Barney Wooters, CRC members

In this first article we thought I designed down to the micro-micro would briefly define what a capacitor farad. A typical value is around 365

is and discuss some of their imprtance electrical characteristics In the next

thev



Micro farad) No actual electron flow occurs across the nlates of a capacitor. The charge will build up to the voltage of the source charge

UUFd (.000365

"All American Five" 5-tube AM radio. Radio repair information concerning these AA5 capacitors will

also be addressed. One of the most commonly used parts in radio is the capacitor (from now on called a "cap"). Cans were called condensers in older radio literature. A cap has the ability to hold an electrical charge. number of electrons it can store under a given voltage is it's capacitance. Capacitance is express in Farad units. A farad is an extremely large figure. Commonly, we are dealing with capacitance is Mircofarads (.000001 Farad. i.e. 1 UFd). Some variable caps, such as those used as tuning condensers (there's that old word again) are

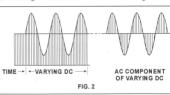
becomes an electrostatic charge difference between the plates of the cap. This action effectively blocks the flow of electrons in the circuit (Fig. 1) This characteristic is in direct current (DC) circuits only. Caps used in alternating current circuits (AC), or AC circuits with a DC component behave differently. Briefly stated in an AC circuit, the plates alternately charge and discharge as the polarity reverses. This effectively produces a current flow in the connected series or narallel circuit. Another important characteristic is that a cap in series with a circuit having a varying DC source produces a current that is alternating. The capacitor is said to block the DC, but pass the AC component. This is an important

PAGE: 13

DC flowing in them. When a load is coupled to the circuit by a cap only the variation, the AC component, is transferred to the load. Alternating current flows in the load, not varying DC (see Fig. 2).

Factors determining capacitance are the area of the plates (or foil, as in paper caps) exposed to each other, the spacing between the plates and the composition of the non-conducting material between the the plates of the cap. The higher the leakage current the less capacitane the cap exhibits in an active circuit. What is even worse, and is of concern with old radios, is that old "leaking" caps act more like a resistor and introduce incorrect circuit parameters and operation.

Another rating of a capacitor that we need to pay attention to is the working voltage. This is defined as the maximum voltage that the cap



plates. This material is called the dielectric. Various dielectric materials, such as air in the tuning condenser, wax paper, Mica, ceranic, glass, water, etc. all have different dielectric constant will decrease as a function of the frequency of the applied AC, but this is getting into more advanced subject matter.

What is important to the radio repair hobby is known as *leakage* current. Leakage current is will operate without leaking excessively or shorting out. Sufficient leakage through the dielectric over a period of time (try 30 to 70 years) can produce a carbonized path across the dielectric, and the cap will start acting as a conductor. In such a case it is said to be burned out or shorted (see Fig. 3). A burned out cap should not be

 A burned out cap should not be confused with an open one. An open cap has lost it's storage ability, either because of the breaking off of an an electrolytic cap, because the

The working voltage rating of a cap is voltage that the dielectric material will withstand per .001 inch of dielectric thickness. This, as with dielectric constant, varies greatly between materials. As an example, air has a dielectric strength of 80, Baskelite is 500, glass is 250, Mica about 2000 and wax paper about 1500. Of course, if moisture parts of the control of the contr

above their rated voltage increases the leakage current and produces increased internal heat, tending to dry them or destroy the dielectric film. They can even explode - this could ruin your meek disposition. They are polarized and must be connected correctly in a circuit.

connected correctly in a circuit.

Caps are often tested to find their power factor. With little or zero leakage loss a cap has a low power factor. Or. in other words, zero



Fig. 3 - An example of the results of leakage and overheating of a cap

into the dielectric these values go to h--l in a hurry! And, in part, that is why I'm writing this article.

Back in the late 1920's a chemical type of cap was developed that has the advantage of small physical size with relatively large capacitance. It an electrolytic is called can Although physically small and relatively inexpensive, older electrolytic caps have some disadvantages. They dry out over a period of time and loose their capacitance value. They have an inherent small leakage current when in operation. When in operation that tends to raise the power factor of the

leakage equals zero power factor. As leakage develops through the cap the power factor increases and is expressed as a percentage rating of the losses in a cap. A power factor of 1 means all leakage and no effective capacitance. Some cap testers will test for power factor.

testers will test for power factor.

In the next issue of the Flash we will be addressing failure modes of caps, and relate those failures to a typical "AAS" Am radio circuit. In addition, we will list some handy cap test hints and actual experiences.

Announcing....

Tube Collectors Association

Medford, OR 97501 (707) 464-7470

A group of collectors and historians has recently formed the TCA. This in response to the need for a focused group dedicated to the growing activity of collecting radio and wireless tubes and to sharing historical insight about them

A copy of our first bulletin has been sent to your publisher [That's the "Flash" folks - ed.] for you to peruse. Also, your publisher has a copy of our membership application form, and we are naturally inviting you to join.

Although we have the services of an Advisory Board of major collector- historians, we still solicit any further suggestions you may have.

If you have questions on this matter, we'll be happy to answer

Al Jones (7 Ludwell Sibley (5

(707)464-6470 (541)855-5207



PAST FLASH ARTICLES

By Dave Boyle, CRC member

I've researched 95% of the past Flash publications and I've gleaned out most of the technical and special interest articles. I thought that these articles may be of future interest to my fellow CRC members. The individual articles, sans any photographs, are available from our Flash publisher Larry Weide for \$.50. Our historian, Charles Brett, has back copies of many of the Flash sixuse available for \$1.50.

For brevity the journals are referenced by volume and issue, starting with volume 2 in 1989. As always, the issues are printed every other month starting with #1 each January.

The article titles have been adjusted/altered by this writer to, hopefully, better define the subject and content (er. I believe this is known as literary license.)

Category	Article	Volume	Issue
History	Boulder radio company	4	2
	Boulder radio company	7	4
	Buckwalter radio company	9	4
	Colorado radio broadcasting	9	2
	Colorado/Nebraska radio history	7	1
	DeForest in Colorado	2	3
	KPOF radio station	9	5
	Madison Moore radio company	9	6
	Martian radio company crystal sets	9	1
	Midget radios	4	3
	Reynolds radio company	7	5
	Victoreen radio company	3	6
	Western Manufacturing company	8	5
Literature	Books - Building an old radio library	8	1
	Books - Radio Boys classic series	8	4
	Horn speakers - Earphone & horn info	5	5
	Patents - Numbers as a source of info	9	5
	Riders - Cross ref. to special repair data	5	1
	Riders - Cross reference data, more	8	1

Category		Volume	Issue
Repair & Restoration	AGC - Problems & Solutions	9	1
	Alignment - AM radios	6	2
	Alignment - AM radios	6	5
	Ballast - Tube substitution	9	2
	Bias - Understanding these circuits	8	4
	Cabinets - Coloring metal parts	5	3
	Cabinets - Finishing dyes and pigments		3
	Cabinets - Refinishing	7	4
	Caps & resistors - Philco block info	9	5
	Coils - Magnet wire	9	6
	Decals - Making your own	7	5
	Dials - Making plastic dial covers	7	1
	Hum - Problems & solutions	8	2
	Knobs - Making reproductions	7	4
	Line cords - Resistance	10	1
	Line cords - Resistance, cap replace	8	2
	Line cords - Resistance, repairs	4	3
	Parts & supplies - Listing of services	7	3
	Power - Old battery sets	6	2
	Powerup - Powering up old radios	6	3
	Powerup - Powering up old radios	9	1
	Repair - Shortcuts for AC radios	4	2
	Restoration - 3 part AK82 series	5	1, 2,
	Restoration - Scott Radio	9	3
	Speakers - Designing you own cones	6	1
	Speakers - Electrodynamic vs PM	7	2
	Superheterodynes - Problems & solutio	ns 4	5
	Transformers - Rebuild audio interstag	e 6	6
	Transformers - Repair & revival	10	1
	Tube - FET substitutions for old tubes	7	3
	Tube - Rejuvenation & Repair	4	4
	Tube - Rejuvenation & Repair	8	6
	Tube - Shields for Philco G size	8	6
	Tube - "Magic eye" tubes	6	2
	WD11 - Substitutions	8	6
Special Interest	Phono oscillator - Construction	5	2
	RF generator - Modify for AM transmi	ss. 8	5

"Radio is a Dismal Failure"

By Thomas A. Edison, Inventor extraordinaire

In the December 1926 issue of Radio News, Hugo Gernsback, the Editor and Publisher of this magazine, ran an article quoting comments by Edison concerning Edison's opinions about radio. This in part is what Edison said;

"The radio is a commercial failure, and its popularity with the public is waning. Radio is impractical commercially and esthetically distorted, and is losing its grip rapidly in the market and in the home. There is not ten percent of the interest in radio that there was last year. Radio is a highly complicated machine in the hands of people who know nothing about it. No dealers have made any money out of it. It is not a commercial machine because it is too complicated. Reports from 4,000 Edison dealers who have handled radio sets show that they are rapidly abandoning it, and as for its music - it is awful. I don't see how they can listen to it."

Gernsback notes, in his rebuttal to these and other continuing remarks by Edison, the following observation;

"Incidentally, this outburst from the dean of modern electricity was in connection with the announcement of Mr. Edison's latest invention, his 40-minute phonograph record - a great achievement, and one that without doubt will be of much benefit to the phonograph industry."

Hmm, I guess the battle between invention and commercialism goes back, ... way back!

RADIO NEWS, October 1927

TELEVISION - is here-

Radio Fanal Mechanical Scientific meni Everybody! Build a TELEVISION SET-The greaters and most amazing developmen of the 20th Century



The First and Only complete book on TELEVISION

H ERE, friends, is the first book to be published giving you the history of TELEVISION, from the first crude experiments at the beginning of the 20th Century—to the com-

rous the first crude experiments at the beganing of the 20th Cerliny—in the comprensively perfect machine, just just into daily operative deviation set that will serve From this look you can build your own, workable televiation set that will serve as a fundamental apparatus for buildeds of temendously interesting, and arrange for the comprehensive of the compreh

thousands of dollars.

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CD-ROM Antique Radio Documentation on the Web

At the Jam/99 CRC meeting a number of people expressed interest in the availability of various kinds of radio information, concerning antique radio, that is obtainable on CD-ROM. Of course you need a computer to use this kind of material, but on a cost per page, completeness and availability basis you will find that there's some real bargains out there. It doesn't take much of a search to discover that there's a few one-stop shopping sites, and that the cost from seller to seller doesn't yarvy that much

For Example:

Company	Available Items	Web Address
ARRL	QST Magazine 1915 - 1994	www.arrl.org
REA	RCA Radiotron Manual V4	www.electrosys.com/cds.htm
	Riders Vol 1 - 23	
	Sams Dial Cord Stringing Guide	
	QST Magazine 1915 - 1994	
	Many Collection Sets of Various	
	Repair Manuals, tube subs, etc.	
	Collins R390A/URR Mil. Recvr	

Enjoy!

Collector Books for Sale

CRC Members get specially reduced prices on popular collector books. Place and receive your order at club meetings. If ordered for mail shipment add \$1.50 postages for each book ordered. For information and ordering: Charles Brett, (719) 495-8660, brett3279@aol.com. This listing has item and price updates - void all other listings. Retail Club

	Retail	Ciub
RADIOS, (GENUINE PLASTIC) OF THE MID CENTURY Jupp & Pina, hard bound, 219 pgs, 1998 PG, 450+ color pics	\$39.95	\$26.00
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GUIDE TO OLD RADIOS, POINTERS 2nd EDITION Johnson, 277 pgs, 1995-96 prices	\$19.95	\$14.00
ANTIQUE RADIO RESTORATION GUIDE - 2rd EDITION Johnson, 144 pgs, repairing, refinishing, cleaning	\$14.95	\$11.00
BAKELITE RADIOS Hawes, hard bound, 128 pgs, history, color pics, descr.	\$12.95	\$11.00
RADIO, EVOLUTION OF THE - VOLUME ONE 227 pgs, 118 in color, More than 800 radios pictured and pri- picture from the collections of CRC members Jim Berg and	ed for 19 Johnny J \$22,95	ohnson
RADIO, EVOLUTION OF THE - VOLUME TWO All different from Volume One, 226 pgs, Color, Radios of the 1960s, with 93-94 values, pix from CRC member Jim Berg		
TRANSISTOR RADIOS, COLLECTOR'S GUIDE VOL II Bunis, 1996 prices, Full Color	\$16.95	\$12.00
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THE ZENITH TRANS-OCEANIC (THE ROYALTY OF RAD Bryant and Cones, 160 gps, 1995	OS) \$29.95	\$20.00
ZENITH RADIOS THE EARLY YEARS 1919-1936, Cones 1997-98 Price Guide, 223 pgs, 100's Photos, Desc., Hist.	\$29.95	\$20.00
RADIOS BY HALLICRAFTERS Dachis, 1996 values, 220 pgs, 1000+ pics, id's, history	\$29.95	\$20.00
CLASSIC TV'S, PRE-WAR THRU 1950'S 86 pgs, color & b/w pics, descriptions, etc.	\$18.95	\$14.00
Machine Age to Jet Age, Radiomania's Table Radio Guide I, '3 Stein, 255 pgs, 100's photos	3-'59 \$24.95	\$17.00

PAGE: 22

TRANSISTOR RADIOS, 1954 TO 1969 Norman Smith, with prices, 160 pgs, 1000 photos, 1998	\$29.95	\$20.00
PHILCO RADIO: 1928 - 1942	520.0E	£20.00

Machine Age to Jet Age, Radiomania's Table Radio Guide 'II, 30-'59

Stein, 358 pgs, 100's photos

RADIO AND TV PREMIUMS Jim Harmon, 256 pgs, 200+ photos, 1997 \$24.95 \$17.00



\$28.95 \$20.00

"The Open Trunk" Classified Advertisements

♦ See IFC for ad details ♦

WANTED: Radione German radios Model R-2 1939 portable, Model R-3 1942 Mil. portable. * Zenith Royal 500 hand wired, & 500E models. * Sub-min tube shirt pocket radios, especially Hoffman "Nugget" John A. Miner (303) 831-5252 davs

hohum@uswest.net

FOR SALE: Reproduction Phileo Cathedral cabinet parts. Front panels, rear arches, bottom moldings. Grandfather clock finials, colonial clock top trim and finials. Reproduction 90, 70 and 20(std) cabinets. Other needs such as other style moldings from you sample. Inquire. Dick Oliver, Antique Radio Svc., 28604 Schwalm Dr., Elkhart IN 46317. (219522-4517. (219522-4517.

WANTED: * The female power (battery) plug for a Kemper portable K-52. Similar to octal except has 7 pins and two round locating pins (edge and center). * Knobs for a Crosley 601 bandbox. Mark McKeown, (303) 278-3908 mmckeown@tde.com

FOR SALE: • Crosley "Bullseye" with fins. Bill Hinkely (303)730-8539

WANTED: • Stewart-Warner model R-123 chassis, used in receiver models 1231 to 1239 (see Riders volume 6 page 6-2 for picture of chassis). • Chassis for AK 217, and Majestic 371. Jerry Tynan, (303)642-0553 jtynan@worldnet.att.net

FOR SALE: • Copper Rod, save \$\$\$\$\$\$, several diameters available to make your own soldering iron tips (or I can for you). • Radio repair and restoration service, David Boyle, 1058 Colt Cir., Castle Rock, CO 80104 (303)681-3258

WANTED: Any GE or Motorola clock radios you don't want. Tom Kelley, 971-1/2 Pleasant St., Boulder, CO 80302 (303)444-1837

WANTED: Chassis for Sparton Model 931. Cathedral cabinets for Philo mod 50 & AK 627 Chassis for RCA 120/124 & Steinite mod 22 Information about any radios manufactured in Colorado: A&M, Madison/Moore, Buckwalter. etc. Wayne Gilbert (303)465-0883

WANTED. * Dial drive assembly for a philoc 42-327, or a junker with dial plate, support, dial pointer and sheaves intact. * Case and knobs for a Zenith 6D311 Bakelite set. * Articulated detector arm for a Flivver crystal set. * Westinghouse Little Jsew (Refrigerator); H-124 dark green, H-127 burgundy. • Palomar base/amplifier. Fred Sodamann 2603 N. Greenwood, Pueblo 81003 (719)543-6654, fritz@market1.com

FOR SALE: • Victor console, 1927. • GE Tombstone Model A63, 1935. • Majestic Tombstone, 1935.

 Ženith 5G01, 1950. • Emerson Model 529, portable record recorder, 1950 Two tone arms and mike - NITB.
 Precision Tube Tester Model 10-54. •
 2 spools of jumper leads, 2 spools of

Clyde Benge,

10057 S. Falcon Creek Dr., Littleton CO 80126, (303)683-0624

FOR SALE: Juke Boxes !

**Rockola 441 "Deluxe" \$300.

**Box Wurlitzer "Cabaret" \$300.

**Dave Wanner, 3230 W. Grand Ave.,

40's hookup wire.

Englewood, CO 80110 (303797-7563

FOR SALE: * Plug-in-peak noise
limiter for National TCS Rev \$15.*
Zenith rotor wave magnet \$9x4x16 \$25.*
Original factory ship, carrior for Phileo
FP43 \$7.* * Philo CO" electify speaker
\$10.** Crosley Prestotune 12, model
1227 chassis withubes \$30.** Sears model
1324 chassis withubes \$30.** Sears model
1324 chassis workubes \$30.*

WANTED: Working, complete, covers

*Mountain Dew BB92*Napoleon
Cognac BB93*Peachtree Cream

BB97*Scotch Seven BB100*Mr & Mrs "TB B106*Canel Cigarettes BB156*Salem Cigarettes BB156*Veror Cigarettes BB162*7UP Vending BB239*Dr. Pepper Vending BB239*Batman (black veri) BB353*Pick Patther BB390*Battlestar Galactica BB447*Sarand MM4U BB486*Fleischmanns Gin B329*Ice Cream Bar B381*Ice Gream Cone B382*Ron Smith, 145 Carr St. Lakewood CO 8026; (303)274-7522

WANTED: * Old Radio magazines for my research library in Antique Radio. Need copies of pubs like Radio Design, Radio Age, and Radio Craft - 1920's thm 1940's. Will provide good home, or purchase singles or full sets at a fair price. Also interested in publications from various companies, Aerrovoc, RCA, Sylvania, Bell Labs, etc. Likewise, need old test equipment literature and manuals. Charles Brett 5980 Old Ranch Rd, Colorado Springs CO, 80098 (201945-8666)

WANTED: • Zenith H511/50L6 chassis or part # 22-1804 & diag/schematic • Crosley 56TN-L restorable cabinet. Fred White, Day 303-966-5386, Eves 303-828-3250 Colonado Radio Collectors
Autique Radio Clad
5270 E. Nassau Cir.
Englewood CO 80110



FIRST CLASS

The January meeting is Sunday the 10th at 1:00 PM in the VectraBank Building at Federal and Arkansas