

What Is Hi-Fi?

A Tweeter, A Woofer, and You

By HARRY E. ASHLEY

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When was the last time you listened? Silly question, don't you listen every day to a million and one sounds—a screech of brakes, a fire engine roaring away, the radio and TV?

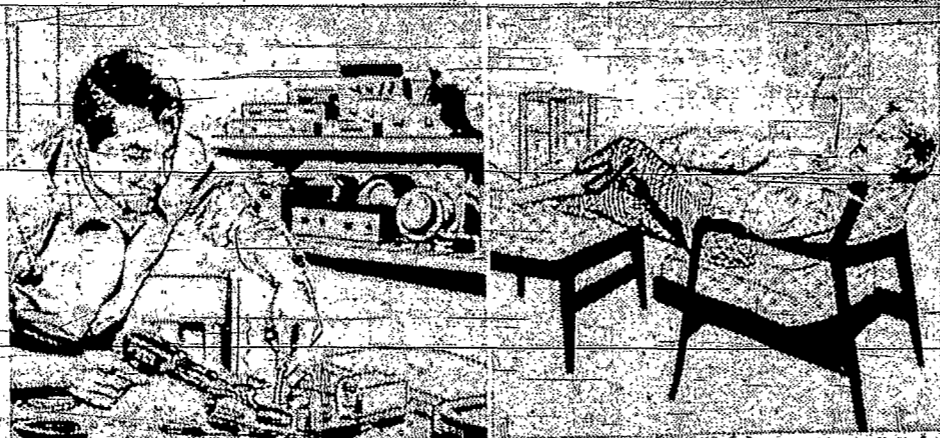
Our lives are flooded with sounds—but how many do we hear? Very few. For the most part, this is a good thing. Obviously, the factory worker who listens to every thud, thud, thud, of his machine will be a nervous wreck at the end of the day. The office worker who hears the clackety clack of his co-worker's typewriter every second that it is working will be biting his finger nails up to his elbows.

So for our own preservation, we are endowed with the ability to shut out or ignore sounds. BUT THIS very ability may be a bad side, also.

We no longer realize that there is beauty in sound. We have become accustomed to "second rate" or "junk" sounds which we hear from our radios and phonographs. If we can recognize the melody of a tune, we are satisfied. Nothing more need be done.

But when we attend a musical play, or a concert, or hear a live orchestra, there is an excitement which runs through our bodies. Our imagination soars when we hear music "live." Radios and phonographs as we know them, are simply incapable of reproducing sound anywhere near a live performance.

That, in a nutshell, is the reason for high fidelity. High fidelity means the reproduction of sounds as close to the original as possible.



Build your own Hi-Fi and enjoy it more.

live" performance as is possible. I have a simple request—make—listen—just once—to a true high fidelity system. (This may be rather unkind to you, but since nearly everyone who listens to a true hi fi system becomes a slave to it.)

With musical instruments, the difference between the highest and the lowest note that an instrument will produce is called its frequency range. The average human ear will respond to frequencies of from 16 to 20,000 cycles per second. The average musical program (live)

will present audible musical frequencies of from 20 to 20,000 cycles per second. That, here is the rub! Your old phonograph is capable of reproducing only 150 to 5,000 cycles per second. Do you see now what you have been missing?

Although many people have realized the beauty of high fidelity and the joy that can come from it, there has been one small drawback—hi fi systems can be a little too expensive for the average working man.

Now, however, the high fidelity system at an enormous saving. When you go searching for information about High Fidelity keep this warning in mind!

While we see many advertisements for radios and phonographs which are called "hi fi," actually they have as much relation to high fidelity as the silent screen has to cinema scope. If all the components of a hi fi system are in one box or package, regardless of how pretty the piece of wood is, it is not high fidelity.

news is that you can build it yourself. The various components in a hi fi system come to you "disassembled."—to speak—and all you need do is put it together yourself. In short, you have a true hi fi system at about half the cost of a factory-wired system.

There is also the pleasure and it is a very real pleasure building the system yourself. You needn't be an electrical genius nor do you need any high priced tools. All that is required is a soldering iron, a screw driver—and a little patience.

The result will be a fine hi fi system at an enormous saving. When you go searching for information about High Fidelity keep this warning in mind!

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High Fidelity, by definition, means a separation of components. The record player or EM function is, obviously, used to receive the sound in your home. The amplifier is the heart of the hi fi system. Through this unit filters the tiny signal voltages generated by the cartridge of the record player. These voltages are multiplied as much as a million times with the amplifier circuit and sent on to the speaker, to be converted into sound.

A WELL DESIGNED amplifier will have a separate bass and treble tone plus record compensation. A ton-watt output rating is considered minimum, higher wattages will result in higher costs but will give superior performance. Do-it-yourself kits are available, too, and you can save more than half with no sacrifice in performance.

The speaker system and cabinet enclosures constitute the final link in the hi fi chain. The importance of a good speaker cannot be overemphasized. The speaker must be able to reproduce all of the program material fed into it.

The ability to handle the frequency ranges of from at least 40 to 15,000 cycles per second is an absolute must. Single, dual or three-way speakers, which are designed to produce nearly natural sound, are available at reasonable prices.

SOME SPEAKERS are designed to produce only the low sounds, these are the "woofers" we hear about. The high range sounds are called "tweeters." Also available are speakers which reproduce the ranges between the tweeters and woofers and these are called "mid range."

Important as the speaker is, the enclosure in which the speaker components are mounted deserves an equal amount of attention. Properly designed enclosures are important because they help the speakers develop natural sound.

The only way to test a speaker and enclosure is to try it in your own home. Most reputable dealers in hi fi equipment will gladly allow you to try various speakers, thus giving you the choice between different speakers and enclosures.

IN ALL CASES, let your ears decide and not your eyes. A shinier piece of wood does not enhance the beauty of the sound. Listen closely to the sound and compare the different speakers and enclosures—the one that gives YOU the best reproduction is the one, naturally, to buy.

That, briefly, is the story of High Fidelity. There are many other facets of it that we haven't touched on and, no doubt, there are countless questions which you might have.

If you wish, I would be happy to have you write to me personally at EICO, Long Island City 1, New York, and I will try to help you as best I can.

I imagine that the best way to sum up is by making this simple request: Cup your hands over your ears for a moment and have someone talk to you. Now remove the hands from your ears while they are still talking—is there any difference? Hi-Fi is listening without your hands cupped over your ears.

'Nurses' Stations'

Washington (NC)—A booklet containing special meditations for nurses on the Stations of the Cross has been published here by the National Council of Catholic Nurses.

Springfield (NC)

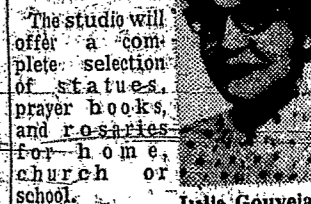
The Illinois Veterans of Foreign Wars honored as its "Citizen of the Year" a nun, Sister Mary Iphigene, who saved 23 children in last December's Chicago school fire by having them crawl across her body to safety.

Nun Honored

Arrangements were by DeBell Funeral Home.

Mt. Carmel Studio Moves To New Quarters

Mt. Carmel Studio, religious goods store, will move to new and larger quarters, 241 Andrews St., next to the Rochester Athenaeum, July 16. Feast of our Lady of Mt. Carmel.



The studio will offer a complete selection of statues, prayer books, and rosaries for home, church or school.

This store has the agency for the Carmelite Monastery, specializing in vestments and infant of Prague statue garments from the Monastery as well as priests' surplices, stoles and Mass vestments.

The Misses Julie and Elizabeth Gouveia are directors of the studio.

World Wide Assistance

TYPICAL OF those whose plight concerns the Holy Father are these shown above. They may be helped through Pope John XXIII's Society for the Propagation of the Faith, in this diocese at 50 Chestnut St., Rochester 4, N.Y.

Beauchamps Observe 40th Wedding Jubilee

Mr. and Mrs. Osias Beauchamp observed their 40th wedding anniversary with a Mass of thanksgiving on Sunday, July 5 in St. Jerome Church, East Rochester.

The Rev. Antoine Lalonde, brother of Mrs. Beauchamp, and pastor of a parish at Gatineau Pointe, Quebec. The Rev. Edward Hart, C.S.S.R. was in the sanctuary.

Following the Mass, Mr. and Mrs. Beauchamp were guests of honor at a dinner at the Maplewood Inn. Present to help celebrate the occasion were Joseph Lalonde, brother of Mrs. Beauchamp and Mrs. Maxime Brisson, sister of Mrs. Beauchamp as well as Mrs. Lalonde and Mr. Brisson.

Ten of the eleven Beauchamp children were also present; sons Antoine, Gerard and Joseph of East Rochester and daughters, Mrs. Margaret Hastings and Mrs. Harry Beat of Syracuse.

Funeral Rites Held For Youth

Funeral Mass for John A. Montante Jr., a graduate of St. Anthony of Padua School, class of 1955, who was drowned, Sunday, June 28, 1959 at Ocean Lake near Albion was offered in St. Anthony Church, Thursday, July 2.

Young Montante, of 304 Jay St. was 15 years of age. Classmates of his were bearers. He had served as altar boy at St. Anthony's and had played on the basketball and baseball team. He had won trophies for his baseball, basketball and bowling ability.

He attended Jefferson High School and was a boy scout.

Surviving are his parents, John S. Sr. and Lily; a sister, Carol and a brother David; also his maternal grandparents, Mr. and Mrs. Joseph La Rocca of Jones Ave.

Statement of Condition as of June 30, 1959

ASSETS		LIABILITIES	
First Mortgage Loans	\$14,280,165.81	Savings Accounts	\$15,060,577.81
<i>This includes approximately 2,285 loans on homes in the Chemung Valley area, thirty-eight percent of these are Veterans-Guaranteed loans, fifty-one percent are conventional loans on our open-end mortgage plan, and eleven percent are FHA insured. Equal monthly payments are made by the borrower until the property is debt-free.</i>		<i>This includes the savings of more than 6,500 individuals, families, partnerships, corporations, civic and social organizations. Savings are insured up to \$10,000 by the Federal Savings and Loan Insurance Corporation.</i>	
Property Improvement Loans	97,541.97	Loans in Process	91,821.57
<i>Loans made under the FHA Home Modernization Loan Plans . . . all repayable in 5 years or less.</i>		<i>These loans have been made and the funds set aside for disbursement. Most of these loans are for the construction or modernization of homes in the Chemung Valley area.</i>	
Other Loans	68,378.66	Deposits for Taxes and Insurance	29,796.02
<i>Made to members who use their passbooks or certificates as security for an amount up to 90% of their savings.</i>		<i>Advance payments left with us by borrowers under some types of home loans . . . held in escrow until tax and insurance bills are due when we will make payments.</i>	
Real Estate Owned	9,367.54	Prepaid Interest	23,658.41
<i>Shares in Savings and Loan Bank and Stock in Federal Home Loan Bank of New York</i>		<i>Interest paid in advance by borrowers but not yet earned.</i>	
<i>As members of these organizations we are privileged to use their credit facilities and numerous other services.</i>		Reserves	1,716,065.86
Office Building and Equipment	119,262.42	<i>Each six months, a portion of our earnings is set aside to strengthen the association and further assure the safety of savers' and investors' accounts.</i>	
Cash on Hand and in Banks	306,684.21	Our Total Liabilities	
Government Bonds	1,731,673.01	\$16,921,919.67	
Prepaid Expenses	2,546.05	<i>This consists of Reserve Fund, Undistributed Profits, Federal Insurance Reserve.</i>	
Our Total Assets	\$16,921,919.57		
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220 EAST WATER STREET • ELMIRA, NEW YORK



THE ELMIRA SAVINGS BANK
MEMBER OF FEDERAL DEPOSIT-INSURANCE CORPORATION
211 & WATER STREET

Statement of Financial Condition, July 4, 1959

ASSETS		LIABILITIES	
Cash on Hand and in Banks	\$ 613,698.66	Deposits	\$16,411,661.19
U. S. Government Securities	2,519,000.00	Escrow Accounts	68,354.52
Other Bonds and Investments (less reserves)	3,982,573.03	Other Liabilities	6,566.76
First Mortgages on Real Estate (less reserves)	10,769,572.22	Undivided Profits	33,935.55
Collateral Loans	23,108.00	Surplus	1,630,000.00
Accrued Collectible Interest	78,600.53		\$18,150,512.02
Banking House	133,189.10	Member Federal Deposit Insurance Corporation	
Furniture and Fixtures	21,323.12	\$10,000 Maximum Insurance Each Deposit \$10,000	
Prepaid Expenses	9,447.36		
	\$18,150,512.02		

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