

Technology advances sound systems

The sky's the limit in stereo

By MARY GNIEWEK

Picture an audio visual disc operated by laser beam application. The picture and accompanying music are produced exclusively via sound and light pat-

terns.

Sounds like a Star Wars invention, but actually it's the latest in stereo equipment and it retails for \$29,000. Though out of price range for most



Lafayette Electronics assistant store manager Bruce Bragg de-scribes the merits of a variety of speakers, stacked from floor to ceiling, in the stereo showroom of the Farmington Hills store.

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stereo buffs, it illustrates how electron-te technology continues to accelerate and change the lives of Americans much like the industrial revolution did a century ago.

Perhaps one day the audio visual disc will be standard equipment in ever-y home. In the meantime, technologi-cal innovations continue to bring down the price of quality steree equipment, making it available to a wider range of consumers.

FIFTEEN YEARS AGO, record players or cabinet stereos were main-stays in most American householis, but they have been replaced by multi-component systems.
"Thanks to mass production and more technological advances, components that cost 2000 just six months ago now cost about \$100," said Sam Dalby, store manager at Lafayette Electronics in Farmington Hills.
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"Fifteen years ago, we sold mestive cabinet merchandise. Parents would buy their kids a separate component set—turntable and speakers—that actually produced better sound. As this younger crowd grew up, their ears were trained. They demanded good sound. This is the main group buying audio equipment today."

Add to more sophisticated consumer tastes the music revolution with the advent of rock and the availability of high quality products and the result is a booming stereo business.

"Six years ago, Pioneer (a major stereo manufacturer) concluded in a survey that seven per cent of the public owned \$400 or more in stereo equip-

avariety of imovations also are available.

"The improvements in loudspeaker and the improvements in loudspeaker technology alone have been revolutionary," liskra said. "We've gone from the basic cone driver to electrostatic plates: metal plates that reproduce count through an electric current."

Photo cartridge technology has also come a long way in the last decade. The ceramic record player needle of the past has been replaced by magnetic cartridges, which greatly expand the life of record albums.

Dolby noise reduction, also known as "click and poy removers," was invented in 1967. Jiskra said Dolby is already archaic. It has been replaced by the SAB 5000 and auto corolator systems, but noise reduction technology continues to be explored.

ANOTHER INNOVATION, DY-NAMIC range expanders, enhance the recorded music to make it sound like a live performance. High powered ampli-fiers are also a marketable commodity

"People are used to listening to loud rock or disco music," Jiskra said. "But 40 to 60 watts is adequate power for

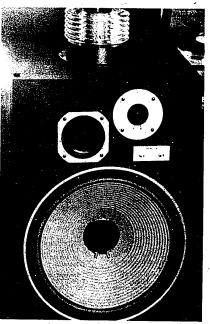
ment," said Greg Jiskra, salesman for Tech Hi-Fi in Livonia.

"Today, that figure has leaped to nearly 40 percent. As technology moves ahead, higher quality equipment is available at lower prices. It makes sense to have a good sound system."

A BASIC SYSTEM includes receiver and two speakers, but turntables, recit or red or eight-track recorders, and a variety of innovations also are available. "The improvements in loudespeaker technology alone have been revolutionary." Jiskra and "We've gone from the basic cone driver to electrostatic basic cone driver to electrostatic sound through an electric current."

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It may look like R2-D2 resurrected from his role in 'Star Wars' but actually (are you ready for this?) it's a High Polymer Super, Super Tweeter spacker. It's designed to bring out the high notes, like flutes or bells. (Staff photo by Harry Mauthe)

THE INSIDE */

TAKING IT TO THE BREAKFAST TABLE is as good a way as any to describe

TARING IT TO THE BREAKFAST TABLE is as good a way as any to describe the before class feast prepared by Larkshire Elementary School's male teaching staff for 30 women leachers recently. The Title IX breakfast featured fresh orange juice, hash brown polatoes, eggs and casserole dishes prepared from scratch, lakeping with the spirit of Title IX, federal guidelines insuring equal treatment of male and female students the female teachers are considering a reciprocal breakfast for their amateur chels.

THERE'S A WHOLE LOT OF GIVING going on at Larkshire Elementary School in Farmington. Parents and teachers gifted school custodian Amos Deaven with a new snow blower a few weeks ago. Deaven has been at the school for five years. After each snowfall he's managed to keep the school's sidewalks clean. Angles figures its pretty opportune of them to present the snow blower during the middle of Michigan's yearly blitz of the white stuff. But IA supposes there's no biz like snow biz.

THE METROPOLITAN DETROIT

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Bail Brith Council and the Bail Brith Women's
Council are forming a singles unit for men and
women more than 30 years old in Farmington,
Southfield, West Bloomfield and Birmingham, The
unit will incorporate social activities and
community services. For further information call
the Baai Brith Council office at 354-6100.

WILLIAM BEAUMONT HOSPITAL in

WILLIAM BEAUMONT HOSPITALI, Royal Oak is sponsoring a free cardiopulmonary resuscitation (CPR) class from 7-10 p.m., Feb. 7. The Michigan Heart Assopiation heartsaver class will instruct persons to recognize signs of heart attack and the CPR technique for one rescuer. Mankins will be used during the class. Enrollment is required. Class size is limited. To register, call the hospital at 288-8425. CPR classes are offered at Beaumont on the first Wednesday of the month through June.

THE COURIERS, a trio specializing in religous songs will perform at 7 pm., Peb. 3 in the Farmington High School auditiorium on Shiawassee near Orchard Lake Road. Tickets for the concert sponsored by the Farmington Hills Christian Center as available at the Center, 32233 Drake, by calling 478-1511 or from Diskon's Book Store, and Grand Book and Bible. Seating is limited.

THE ARTHRITIS FOUNDATION. THE AKTHKI IN FUUNDATION, Michjan Chapter, is resuming its "Mutual Support" program at 7 p.m., Feb. 12 at St. David's Episcopal Church on Twelve Mile between Greenfield and Southfield Road in Southfield. The programs are conducted monthly on the second Monday. Jan Mentzer, physical therapist with the Visiting Nurse Association will speak about home care for persons with arthritis. The programs are free.

SENIORS ELIGIBLE FOR home heating SENIORS ELICIBLE FOR home heating assistance payments from the state of Michigan may not be applying for them. The contusion comes in since this year's heating assistance is applied for on the same form used to claim a refund of local property taxes. In other years a separate application was necessary from the Social Services Department. Not everyone receiving a property tax retund is eligible for the heating assistance payment but there is a relationship between the two programs. There are some differences in the eligibility requirements and the Treasury Department card make the computation and make the payments unless it is applied for on the form. Applicants receiving public assistance or ADC, those with more than \$3,000 of liquid assets and persons who are claimed as a dependent on

persons who are claimed as a dependent on someone else's taxes are not eligible for heating assistance

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These persons may still be eligible for a property tax refund. The amount of healing assistance payment is determined by a formula relating the applicant's bossehold income and the number of exemplions. Seniors over 65-years-old are entitled to two exemptions and receive a greater benefit than others. Assistance in preparing the form is available in all treasury department offices throughout the state.

FARMINGTON SOROPTIMISTS will

FARMINCTON SOROPTIMISTS will conduct their honers award ceremony at 7 p.m., Feb. 1 in Mercy Center, Eleven Mile and Middlebelt, Farmington Hills. Recently, the group presented their youth clitizenship awards. First place winner was Melissa Faulkner of Novil High School. SHe will receive \$150 from the local club and then compete for the regional award of \$1,000. First runner-up was Renee De Marini, of Farmington High School. She will receive \$150. Second place winner Joan Hittler of Mercy High School will receive \$50. The awards can be used in any way the recipient chooses. Youth clitizenship awards care it considered scholarships but are awards of merit.

DEADLINE

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