

airman's job. Putting it back together is the other half. faking it apart is only part of a microscope



Ready for a routine cleaning, this microscope could be taken apart arther since each section can be dismantled. (Staff photos by Harry furthe

## Farmington firm offers hope

# Lab life mangles microscopes

#### By LOUISE OKRUTSKY

Microscopes, the gateway to a world inside a world, take on a look of inde-structibility when they're placed on a black laboratory bench. But Jim Ensminger, of Midwest Microscope Service in Farmington, howar battar

knows better. There's a lot that can go wrong with

a microscope. Examinger, the company's service manager, makes house calls to doctors with ailing microscopes. Schools, hos-pitals and private owners of micro-scopes are on the company's list of clients.

scopes are on the company's list of clients. Together, Midwest's clients manage to spill acid on microscopes, drop them down a stairway and clog deli-cate lenses with oil. In addition to accidents, normal wear and tear take their told no micro-scopes. Each year, Midwest repairs about 3,000 microscopes. The company charges anywhere from \$10 to \$4,000 for a repair job depending on how many parts they must remove from the instrument, job depending on how many parts they must remove from the instrument, job depending accounts with hospitals and laboratories with hospitals and laboratories throughout Micligan and part of Ohio, according to Ensminger.

While some of the scopes undergo routine repairs without being removed from their location, others are taken back to the shop.

back to the shop. READY to be returned to Mercy College is a top of the line Zeiss micro-scope. It found its way into Midwest when someone poured acid over it, the \$3,000 microscope undervent a \$400 repair job to get it back into work-ing order. In addition to work on the mechanism, the body of the micro-scope was given a new coat of paint. "I'm not totally happy with the job," "dmitted Ensminger as he weed the microscope now safely covered with a plastic bag.

admitted Ensminger as ne eyed ine microscope now sädely covered with a plastic bag. "But it's an improvement." When workers at an auto company foropped a beach metalgraph, used to check for pits in metal casting, down a light of stairs, the pieces ended up in the Midwest workshop. Now housed in a cardbaard box, the cracked industiral microscope faces an uncertain future. If Midwest obtains a similar model that is badly damaged, it may be able to rebuild it. That's the procedure the company uses when high school students take apart microscopes in their lab classes. If the scope is badly damaged, Mid-west owner Ron Emmitt advises

teachers to keep the remains in a cardboard box. Repairmen might be able to collect enough parts from a mumber of broken instruments to rebuild one or two microscopes.

Thursday, September 21, 1978

USUALLY, the crew at Midwest dedicates it's time to more frequent adjustnests of microscopes. Oil in the lenses is a common prob-lem. Lab technicians use oil to help focus a slide. While the oil clarifies the slide, it damages the lenses. While some lenses are specially built to with-sant the ail most become closed.

Sitce, it damages the lenses. While some lenses are specially built to with-stand the oil, most become clogged. When the clogged lens hampers a techniciants job, then Midwest cleans description of the seals on description of the seals on description of the seals on the seal of the seals on duly don't notice it at first," Anomi-riger says. "But in six months it becomes a problem." Another problem resulting from microscope daily use is the gradual wearing down of the stage, the plat-form under the lens where the sides are placed. If the stage wears down enough, it will affect the microscope's ability to focus. Since microscope's ability to focus at a certain angle, a change in the position of the side will ender the side will side will side will side will side will and the seal of the side will and the side will side will side will side will side will side side side side will side wil

affect the instrument's performance. If a microscope takes a spill in the line of duty, its prisms might be jarred out of line.

line of duty, its prisms might be jarred out of line. PRISMS allow the user of a binocu-lar microscope to see the same thing brough both eyes. If the prism is invocked out of line, the image pre-sented to each eye becomes uneven. If lab technician uses a microscope with poorly aligned prisms, he's ask-ing for a headach, according to Draminger, because the technician's yess try to compensate for the slight uneveness in the image. It takes a repairman about four borns to readjust an unbalanced set of prisms, Ersminger sold. Through the years, microscope show borne more sophistical, Bus borne borne in the starts of the borne borne in the starts of the borne borne in the starts of the line in the start was transferred to be hospital's West Bloomfield facil-ty, Ensminger said she insisted on baking her favorite microscope with her. Some technicians believe that the

her. Some technicians believe that the (Continued on page 6A)

# The inside \*

No provide States

HAPPY BIRTHDAY, DEAR HARRY, HARRY, HART BOKT, A Farmington Hills resident for nearly 20 years, celebrated his 60th Seyt. 13 and challenged all concers 80 years and older at the Detroit Temis and Squash (2th in the Hills. No one took hm up on the offer last Sanday so Roberts played his usual three sets of doubles and called it a day. As a five-year member of the club, it's obvious that Harry loves tennis-much to his advantare.

A

Jim Ensminger repairs microscopes for hospitals in the Pontiac area. An occupational hazard is the question, "What can go wrong with a microscope?"

his advantage. FARMINGTON'S HERITAGE is the pastime of members of the Farmington Historical Society who will hold their first meeting of the 1979 year at 5 pm., Sept. 27, 10 the downlown Honoter of the Spm., Sept. 27, 10 the downlown Honoter of the Wisser finance Form, counting the second second second second second second parts greaker. The Wisser home consists of a large Greek Revival house, greenhouse, carriage house, and barn. The Historical society also is keeping busy preparing for the Tri-County Historical Conference hosted this year by the Farmington group. Schemield for 9 a.m. to 4 p.m., Nov. 4, in the Ibrary, usually between 75-100 persons gather for ONE Second Second Second MAS THE CODEN AS LICEL ------

WAS THE CORN AS HIGH as an eleptant's eye? John F. Henige of 25120 Springland might know. He attended a two-day 'fly-in' in Perry, Okla. recently. As superimendent of motor transportation for Detroit Edison, Henige inspected equipment used for installing underground services such as utility and phone lines.

WE'RE ALWAYS WRITING WE'RE ALWAYS WRITTING ABOUT BLOOD, and that's because muthing replaces blood but the real thing. There's no symbetic, and blood donors are needed for the annual Farmington Community Blood Drive scheduled (no 29 pm., Setz 24 at the Farmington Elixs Lodge No. 1996, 2666 Orthard Lake Road. The Elixs are honging to collect. Un pints of blood this year, to help supply the 900-100 pints needed duily in southeast Michigan. For information or an appointment, donors can call 476-1986.

AUSIC, MUSIC, MUSIC, is the aim of the Livonia Commanity Band, which begins its third season and is looking for additional musicians. Rehearsals are held form 7:30-30 pm. on Wednesdays beginning Oct. 4 in the Jefferson Commanity Center, 5001 Henry Ruff, Livonia. Auditions for seating will be arranged, and prospective members should have some concert band experience. All ages are welcome, and Livonia residency is not required. For information about the band under the direction of Ates Duke, call 427-538. ex Duke, call 427-5388.

MONTHLY MEETINGS FOR ARTHRITIS patients and their families help to provide information about the disease through accurate literature and professional lectures. James Lesser, M.D., an artirritis specialist, will be speaking on "Drag Therapy of Rheumatoid Arthritis, Ostearchritis, and Gout" at 7:30 pm., Oct. 9 at St. David's Episcopal Church, Twelve Mile between Greenfield and Southfield. The free programs are sporsored by the Michigan Chapter of the Arthritis Foundation, Oakland County Volunteer Unit.

AN AUCTION-DINNER-DANCE for Dominican High School alumnae, parents, faculty and friends is schehaled for New 14 to celebrate Dominican's 38th birthday. A silent auction will begin at 5 p. m. to be followed by an oral auction at 7:30 p.m. Dinner and draxing to the music of the verning from 9 p.m. to 1 a.m. An open bar will be relatured from 5 p.m. throughout the evening. The anniversary party requires reservations, which can be obtained by calling Dominican High School at 828 3500. Tickets are \$55 per couple or \$17.60 single. single.

sngie. GETTING A HEAD START ON EDUCATION is the aim of, quite obviously, the Head Start program administered by the Oakland County Livingston Human Sorvice Agency. Head Start is an educational program for 3 year-oits, including career development for parents and supportive services, such as health and matrition, to families. Families must meet federal low-income guidelines, be receiving public assistance or have a Head Start aged child with a matricap, which includes learning disabilities as well as physical and enotional handicaps. More faformation can be obtained by calling the Families must be able to all the families of the families of the Family of the second second second second second second second families of the second second second second second second second second families of the second families of the second secon

THE FRIENDS OF ORCHESTRA THE FRIENDS OF ORCHESTRA HALL have a reason to celebrate. This summer's resolution and restoration of the celebrated concert hall in Detroit will be on display from noon 40 p.m. Oct. 11 for the second annual rent party. The party takes its name from year of fundamising social events the host would dock up on refrestments, ask me or more friends in to entertain, then invite the neighbors in for a duation to the party. Integrate with the fundition, a variety of musical performances will be funder the state of the state of the state in the state of the state of the state of the fundation to the party. In keeping with the fundation to the party on keeping with the fundation to the state of the state, and jaze of the state of the state of the state of the balance of the state of the state of the state of the partice of the state of the state of the state of the balance of the state of the state of the state of the balance of the state of the state of the state of the balance of the state of the balance of the state of the state of the state of the balance of the state of t

### DEADLINE

DECADLINE Material for the Inside Angle (2210 W. Nine Mile, Southfield 4004) should include the name and phone mumber of the sender and should be typed if possible. Items should be received at teast one week before publication and photographs cannot be used in this column. All materials become the property of the Farmington Observer, but all information is open to the public.



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Dated<sup>®</sup> and will be replaced if they wear out before a year is up under normal use. Just keep your proof of purchase. SEF flame safe fabric, they're soft, cuddly and oh so cozy warm. Hiber Nater Gro Bags in solids or prints. \$7 and \$8; solid or print Jama Blankets, \$7, 7.50 and 8.50. All in pastels, all with knit necklines and cuffs for extra warmth, Hudson's Infants, Babes and Toddlers.

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