



# THE ARROW HEAD



STUDENT PUBLICATION OF CENTRAL HIGH SCHOOL  
THE EAR AND EYE OF CENTRAL HIGH

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NUMBER 7

## Posters, Books Bring Thought To Brotherhood

Signs around Central as well as spot announcements on television proclaim to you that this is Brotherhood Week.

Around Central you may have noticed a bulletin board in the library which points out several books pertaining to the subject. This is the work of Central's Human Relations Council. Martha Jane Guthrie, sophomore, is the chairman of the committee to decorate the bulletin board in the library.

The inspirational readings on the broadcasts this week have also been under the supervision of the Human Relations Council. Rodney Young, sophomore, is the chairman of the committee in charge of this project. The sources have been various philosophers, Biblical quotes, and writings from many other religions on brotherhood.

"All these projects are in accordance with the purpose of the council, 'To promote better understanding among the students of Central High,'" relates Roberta Smith, senior, president of the Council.

On February 1, the Human Relations Council heard James W. Pirie at Flint Junior College on the subject of Flint's Human Relations Council. He explained what the council is doing, what they plan to do, and what groups are participating with them.

No future plans are definite. This is the council's first project this year as they first organized in December.

## Coming . . .

- Feb. 13—Senior Talent Show auditions
- 14—Wrestling, Pontiac—there
- 15—Swimming Meet, Southwestern—here, 4:00 p.m.
- Senior Talent Show Auditions
- 17—Basketball, Saginaw—there
- Swimming Meet, Saginaw—there
- 18—Valentine Dance, Student Union — Ballenger Field House
- Wrestling, City Championships—here, 1:00 p.m.

## Secrecy Plays Big Part In Tentative Show Plans

Keeping the theme secret until the latest possible time is only one of the many plans the seniors have for winning this year's annual Junior-Senior Talent Show.

Some of the tentative plans include: boy-girl dancing, no recorded music, and costumes and sets made by the seniors.

In charge of the show are Sandy Peltier, James Klee, and Mary Muller. Miss Jacqueline Kramer is the teacher in charge.

Tryouts are February 13 and 15 at 2:10 and 3:10 in the auditorium. All seniors who are interested should come and sign up. A planned act is not required.

Also out to win, the Juniors are busily choosing committees and chairmen.

With Ernest Cole as adviser



DISCUSSING THE PROBLEMS in the Congo with Miss Mildred Hodges (right), United States history instructor, are (far left) Roberta Smith, president of Human Relations Council, and Jan Heinrich. In discussing the problems, the group uses Newsweek maps to point out different sections of Africa. (Photo by Dave Bieder).

## B. Whitworth Wins Junior Miss Crown

Reigning as Michigan's Junior Miss for 1961 is Beverly Whitworth. She competed with 27 other girls in Pontiac, January 28.

This contest is similar to the Miss America Pageant. The girls are judged on poise, personality, general appearance, and talent. Beverly spent all day being judged—at dinner, during interviews, and in formal attire.

For the talent division Beverly demonstrated the three phases of competitive roller skating; she made her own costume for this.

As she was announced winner from the three finalists, she was presented a bouquet of red roses, and a crown costing 250 thousand dollars was placed on her head. Although this crown was returned to be used again next year, Beverly received a smaller crown of her own. She also received a two and one-half foot trophy engraved with her name.

Among the gifts she received are a \$500 scholarship to the college of her choice, a \$150 pearl necklace, a stereo phonograph, a cedar chest, a full length formal, a sports

outfit, and a Bobbi Brooks wardrobe.

Beverly will represent Michigan in the National Junior Miss America Contest in Mobile, Alabama, March 18. She will have an expense-paid trip; her mother will spend the week with her.

To enter the contest Beverly sent in an application and her previous news clippings. She also had to be a high school senior.

Beverly has held such titles as Miss Roller Haven, Miss Michigan State Fair runner-up, Miss Chesaning Showboat, Miss Alcoa of Michigan, and alternate Michigan Posture Queen.

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Beverly Whitworth

## Just a Reminder . . .

Anyone who is interested in entering the Fifth Annual Science Fair should be sure to secure an entry blank and rules.

These may be obtained from Mrs. Freda Parmalee, Central's representative for the Fair, in the biology room. All exhibits must be registered in order to secure a place at the I.M.A. and in the judging consideration.

The deadline for registration is March 10, 1961; so now is the time to enter and begin working on a project. The Fair will run from April 13-8, 1961.

There are four fields of entry which one may enter: Biological Sciences which include botany, zoology, and psychology; Earth Sciences which include astronomy, geology, and meteorology; Physical Sciences which include chemistry, physics, and mathematics; and General Science.

First prize is an expense paid trip to the National Science Fair at Kansas City and \$100. Other prizes and awards include \$100 for second place, \$75 for third, \$50 for fourth, and \$25 for fifth place.

## Senior Girl Wins High Honors In Westinghouse Talent Search

Margaret MacVicar, senior, is among the 399 students in the United States who won honors in the Westinghouse Science Talent Search.

These students were selected from the 3,991 seniors, who entered the twentieth annual competition, on the basis of individual science project reports, a science aptitude examination, the student's general scholastic ratings and recommendations from his teachers.

Margaret submitted a project on the life cycle and anatomy of the artemia salina, a salt water crustacean.

Of these 399 students, forty winners were chosen February 1. They will travel, expense-paid to Washington, D.C., March 2 to participate in a Science Talent Institute where they will compete for Westinghouse scholarships and other awards which are valued at \$34,250.

The Westinghouse Educational Foundation, which provides the scholarships, and the Science Clubs of America,



Margaret MacVicar

which conducts the program, will recommend all 399 students to colleges and universities for other scholarships.

One other Flint student, William DuMouchel of St. Michael High School, won honors in the competition.

## Students Show More Interest In Sales Co-op

Sales technique comes naturally to some people, but others must practice many hours or have real experience in selling to achieve the same results.

Interest is increasing in the Sales Co-op program for seniors at Central. Five more seniors have enrolled and been accepted in the Sales Co-op program which gives students experience and extra money for expenses which arise. Every semester seems to bring more students wanting to be in the program.

Places and types of employment vary. Some students work in grocery stores, and others work in clothing stores or places which will prepare them for a job in the future.

Two future events of the Sales Co-op program are the annual Co-op Banquet, where the Co-op student takes his boss to dinner and the annual field trip for co-op students.

Applications for entering the Sales Co-op program next year will be taken during February and March.

## Spirited Club To Stir Pep

Ingredients are necessary to have a good student body, just as they are necessary to bake a perfect cake. The more ingredients put in the cake, the better it turns out. The more ingredients put in the student body the more spirit it shows. Central's Go-Go Club is one main ingredient of its student body.

Consisting of 50 members, 25 seniors, 15 juniors and 10 sophomores the club tends to be the heartbeat of our school by giving extra spirit at games and pep assemblies.

The vice-president of each class automatically becomes a member of the club and those students wanting to become a member apply to the vice-president of their class. The applications given to the vice-president are cleared through the main office. Members are chosen by their scholarship, attendance, and number of activities in which they take part.

During games and pep assemblies the club members wear red vests-made of plastic so they can be distinguished from the rest of the audience.

Juniors recently joining the club are, Michael Chobanian, William Coppel, James Wenger, Karen Wenger, Kathleen Parkhurst, Martin Rosenfeld, Lynn Rudner, Laurel Sill, Paul Tamraz, Donna Winegar, Jean Williams, Susan Wood, and Sally Makowski.

New sophomore members of the club are, Jacklyn Buffington, Lynn Finsterwald, William Hershey, Susan Honeywell, Lois Livesay, Jean MacArthur, Mary Elizabeth Pringle, William Ryan and Karyl Swartz.

## CHS Graduate Feature Pianist For Symphony

At the request of the Flint Symphony Orchestra, Robert W. Bailey, 1955 valedictorian of Central High School, will return to Flint to be featured soloist at the next performance of the Symphony Orchestra. The pianist will play in Central's auditorium Tuesday, February 21 at 8:30 p.m.

After graduating from Central, Robert continued his music studies at Dartmouth College in New Hampshire. While attending Dartmouth, he gave several piano concerts on the campus and in neighboring communities. He was also accompanist for the college's glee club and chorus. He graduated from Dartmouth in 1959.

Dartmouth College granted Robert the \$2,000 James B. Reynolds Scholarship which gave him the opportunity to study music in Germany last year.

Robert is now doing post-graduate study at Princeton University in New Jersey where he hopes to obtain a master's degree in musicology.

While he attended Central, he not only received the highest scholastic honor, that of being valedictorian of his class, but also was president of the National Honor Society, co-editor-in-chief of the Prospect, vice-president of the orchestra, and president of Shakespeare Club.

## TV: Education Vs. Evil Eye

TV is infamous for its fatality rate among programs and likewise it has a deadening effect on a student's good intentions to study.

At times television programming offers a valuable medium in which events in history and other studies can be presented with an effectiveness not otherwise possible. However, these programs are hidden in the forest of detective stories, westerns, and family series.

The programming of TV, naturally aimed at entertainment, is drawing students away from their physics to the "Donna Reed Show" or "Wagon Train". This is not the fault of TV but of students who don't really want to work for this education and would rather be spoon-fed by TV with ten times as much entertainment as enlightenment.

Such programs as "The Americans," a weekly series concerning the Civil War, is certainly worthwhile to all students. Care should be taken though that we don't decide to watch "The Rebel" because it is about the period after the war. That is over-rationalization.

We must decide when we work and when we play and not sacrifice the former for the latter. A good theory is that if we don't see it now, we can watch it this summer as a return without knowing already that the butler did it.

—Charles Beldin.

## Classes Clash in Cash Dash

Because of the cost for the junior and senior class proms, competition for money-raising projects between classes has left the developmental stage and is now a race to see which class can obtain permission for a certain idea first.

In the Student Council minutes of October 21, 1959, each class was designated with certain projects. Naturally the sophomores have fewer of these projects because they don't have a class play and are not part of the Junior-Senior Talent Show; the sophomores also have fewer, if any, expenses.

But the juniors and seniors seem to have conflict after conflict concerning these projects. First the juniors had a paper drive which is a senior project, and then the seniors were selling junior pennants. Next senior fudge sales were outlawed because of the junior bake sales.

I feel that there must be a stronger enforcement of class projects. If there are to be designated projects for each class, let them be definite so that there will be no inching over the boundary lines. To do this the class officers and sponsors should know exactly what their projects are.

Besides overlapping projects, class members are taking their ideas from other classes. January 23 the Senior Board of Directors voted to collect clothes hangers for which cleaning establishments will pay approximately a penny a piece. Wednesday, January 25, the Student Council voted to let juniors collect these hangers. What happened in two days to a secret senior project?

What senior would tell a junior, and what type of junior would take away this project?

—Susan Thorpe.

## Challenges Beckon Students

"Participation" is the key word to success in high school. To some students, however, the word is one they wish didn't exist. They know that it means the difference between being known or being nobody, and they are unwilling to meet this challenge.

Everyone who attends Central meets this word in some form or another. The contact might be in school work or social events. Those who meet this challenge either in the classroom or in outside activities find that they obtain much more from them. The saying "You get out of something only what you put in," is especially true in this respect.

Throughout the school year you have many opportunities to show your ability to participate. School sports of any type are available to both boys and girls who are willing to contribute. Dramatic productions such as Kaleidoscope, the Senior Play, Attic Players productions, Junior Play, and the forthcoming Junior-Senior Talent Show are only a few of the many ways to show dramatic participation. These productions wouldn't exist if it weren't for the same few who are willing to "give."

Participation in high school is especially important to one's future. It will not only provide pleasant memories of high school years but it will also be one of the determining factors in future employment.

—Diana Carpenter.

## THE ARROW HEAD

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ED CUSTER AND CAM VERMILYA (from left) display their artistic efforts, "The Matador" and "After the Battle" respectively. "The Matador" is done in oils; "After the Battle," in pencil. (Photo by David Rieder).

## Students Display Talent

"After the Battle" is the title of Cam Vermilya's shaded pencil sketch. The drawing depicts the face of a weary but happy soldier after surviving a long battle.

The sketch was the final result of a long study of simple figure drawing, which his Advanced Art IV class had been studying. Body positions, shapes, muscle tone, and proportions were a part of Cam's study. After satisfactorily completing a series of sketches illustrating these principles, Cam began work on his soldier.

First circles indicating proportion and position were drawn on a white chip board. A white chip board is similar to a piece of light cardboard. A light pencil was used while adding the facial features so that they could be changed if needed.

A heavier pencil outline of the complete drawing was then applied.

The pencil shading is all important, for facial emphasis must show the emotions of the soldier. By alternating dark and light pencil shades the drawing becomes dimensional. Smoothing with a finger evens the shading.

In Ed Custer's portrait entitled "The Matador", facial expression is also an important factor. Fear before entering the arena is the effect which Ed produced in the fighter's face. Ed explained that a painting is not a window, but an expression of the artist's emotional feeling as applied to canvas.

To achieve this overall result Ed applied oils over a lacquer base on masonite. The bright colors in the painting show the brightness of the arena and the gaiety of the crowd.

A pallet knife, brush and

fingers were used to obtain the finished product. The pallet knife brings out the sharpness of colors while the brush and thumb give softening effects in the face, neck, and for the right background.

Ed got his idea for the painting after observing a display of Mexican art and pottery. He stated, "It's not necessary for a person to like the painting, but it is essential for a person to take the time to discern the artist's objectives in the creation of the painting."

## 'Slinky' Useful in Physics

Passing by the physics lab lately, one would think the physics students had reverted to their childhood. This, however, was not the case.

All in the name of science, the physics students gathered up their super "slinkies" and went out into the hall to send periodic pulses down them.

Now, a "slinky" is a large spring which many children regard as a fascinating toy that will walk down stairs. A slinky has many uses, however, and one of them is helping explain waves and the wave nature of light to PSSC Physics students.

Regretfully putting their slinkies away, the students progressed to ripple tanks. These tanks looked like aluminum storm windows with legs, but equipped with small motors and wave generators; they served to further the study of wave action.

Although many wet sleeves and bumped heads (caused by students forgetting they were underneath the tank and trying to stand up) resulted from the ripple tank experiment, the students gathered more evi-

## Death Takes Two Friends

Stop one moment, students! Spend a few minutes in meditation over the loss of two friends of Central.

Death first occurred during Christmas vacation, and fast on the heels of that date struck again on January 20, 1961. Perhaps some students aren't acquainted with these past friends. Both were the center of attention among students. One was graceful and beautiful and appeared to float as she made her way around. About two months after she first came to Central she developed a fungi which was treated too late and in vain. Thus she has left this world to join her forefathers.

Several days later, a long-time member of Central died very abruptly. He was in the spotlight of attention right up until he died. This Centralite seemed to have a rather sinister appearance about him; thus his friends didn't number in great figures.

Who are these two Centralites? The former is one of Central's two adult female seahorses while the latter was a garter snake belonging to Edward Brigham, biology teacher. Both were used in the field of education, while they created a friendly atmosphere during their residence in the biology laboratory.

dence about the possible wave nature of light.

Using two double-edged razor blades to make extremely fine slits on a graphite coated slide for another experiment, students also made numerous slits in their fingers. When announcing where to get various supplies, Robert Shaw said, "Slides are in front of the room, all the rest of the equipment is in the lab, and plenty of merthiolate is available in the stock room!"

This adventure back into their childhood days of "slinkies" and playing in water was not all in vain for the physics students, for by the end of their experiments, they had determined that light was more nearly a wave than a particle.

## Jr. Rotarians Aid Leaders

Every Central student is a representative of the school in some way. We represent our school when we cheer for the team, or even when we wear a varsity jacket with our school colors.

Some of us, however, have better chances than others to represent Central High. Take for example, our Junior Rotarians.

Traditionally, here at Central, the president of Student Union and the president of the senior class go to Rotary Club, one for each semester. Last semester Tony Lawrence, senior class president, attended the meetings and will be replaced this semester by John Seeley, Student Union president. Junior Rotarians attend meetings with Philip H. Vercoe, principal, who is an active Rotarian.

The Rotary Club meetings are luncheon affairs and take place at the Durant Hotel, Friday noons.

Besides representing Central High, these student leaders get a chance to meet prominent men of Flint and the surrounding area.

—Jack Meyers

## Pocket-Sized Record Player Predictable in Near Future

Looking into the future, do you see yourself wearing paper clothes, cooking steaks in two minutes, a potato in four seconds, brushing your teeth with a musical toothbrush that sounds a sour note whenever you don't brush your teeth correctly, and flying individually with a souba type rocket belt?

The chances are high that you will be doing all these things and more in the next two, three, or four years.

Because the inventor is always trying to devise newer, cheaper, faster or better ways to do things, in 1961 we can expect such things as these:

A pocket-sized portable record player that can play all sizes of LP records without a turntable and weighs less than four pounds.

A transistor radio that is the size of a sugar cube. This is just one of the many products that has developed be-

cause of the transistor, which has reduced many things to miniature size and has made space exploration possible.

Homes with windows that will automatically close at the first drop of rain, and then reopen when the sun comes out.

Dial-an-appliance household which enables you to pick up the phone, dial your home and then a few digits, and set the oven, washer, air conditioner, or any other appliance you wish.

Today's invention and research pace is going at such a speed that there is now something for every member of the family . . . from a baby bottle that plays Brahms' Lullaby to a dog food that kills fleas for Fido. The speed is so great that man's next major invention could be next year, next month, next week, or tomorrow.

## 35 on All-A Honor Roll; 147 Receives A-B Honors

Overall, the seniors had more students on the honor roll than did the juniors and the sophomores, but the sophomore class had more All-A students than either of the other classes.

In the sophomore class, 16 achieved All-A's, eight girls and eight boys. In the junior class, two boys and seven girls gained All-A's, and in the senior class, ten students, eight of whom were girls and two were boys, attained All-A's.

Of the 147 students who gained A-B Honors, 43 were sophomores, 42 juniors and 62 seniors. In the senior class, 29 boys and 33 girls attained this honor, in the junior class 10 boys and 32 girls, and, in the sophomore class, 19 boys and 24 girls.

The sophomores gaining All-A's were John Bigler, Gloria Bloomquist, Karen Bullock, Carol Burns, George Cook, James Lau, William Martin, Elaine Meyer, Frederick Miller, Bruce Monroe, William Ryan, Nancy Silver, Tim Sodeman, Carole VanHuff, Pat Williams, and Barbara Willis.

The nine juniors who received All-A's were Gloria Fan, Leslie Fitch, Diane Granger, Dallas Killian, Jean Potter, Judy Purdy, Carole Shirkey, Marya Withey and David Yoder.

The seniors who received All-A's were Linda Flickinger, Mary Lee Hall, Ralph Helgeby, Margaret MacVicar, Beth Mattson, Richard Monroe, Jacqueline Packard, Carol Proctor, Suzanne Sitts, and Roberta Smith.

Sophomores on the A-B Honor Roll are George Balsler, Jack Barber, Rhonda Bess, Donald Boone, David Briggs, Joy Burroughs, Patricia Costello, Michael Depro, Janice Dimock, Victoria Fan, Jordan Fehlig, Gerald Franzen, Carol Gaboury, Jack Green, Steve Harris, Carolyn Haskins, William Hershey, Susan Honeywell, Leonard Ireland, Dianne Johnson, and Nancy Kelly.

Others were Cheryl Link, Lois Livesay, Donald Lossing, Barbara Lueck, Jeanne MacArthur, Donald McClellan, Richard McClmans, Ross Mahachek, Martha Parker, Christina Pong, William B. Potter, Mary E. Pringle, William Ryder, Carol Schwyn, Gary Sowden, Jo Ann Stukkie, Karyl Swayze, Roberta Thompson, Elin Kaye Topham, Sandra Van Conett, Merrily Matters and Rodney Young.

Juniors receiving A's and B's are Jean Campbell, Michael

Chobanian, Marquise Conaton, Cheryl Crawford, Sue Crissey, Margaret Cwieka, Alan Davis, Roberta Dodge, Wilma Epstein, Audrey Fenner, Lee Fletcher, David Foster, Pamela Gay, Mary Goodall, James Gremel and Cheryl Guerrier.

Others are Deanna Heath, Janet Heinrich, Dorothy Johnson, Jean Klein, Linda Kronlund, Jens Kubicek, Kathleen Lillard, Karen Lynn, Carole Macauley, Nancy Max and Priscilla Moore.

Others are Martha Rickard, Diane Roth, Roberta Rowe, John Siler, Laurel Sill, Janice Sparks, Paul Strong, Mary Kaye Tibbetts, Renee Turner, Jill Walcott, Harry Westerfield, Linda Wood, Susan Wood, Judith Yahr and Richard Young.

Of the 62 seniors who received all A's and B's, 33 were girls and 29 were boys. They were: Hope Ashbury, David Berman, James Biladeau, Karen Bloomquist, Kenneth Boaz, John Boeve, Douglas Booth, James Brady, Larry Breeden, David Bullock, Jill Comins, Norma Cull, John Delos, Howard Downing, Leona Eneix, Mary Flood and Melissa Foster.

Others were Penny Gaylord, Susan Goldberg, Mark Greer, Rosemary Hahn, Corwin Hale, Bucilla Hatcher, Darlene Hodge, Carol Hoffman, Howard Holstinger, Richard Horning, Jerry Howard, Pearl Marie Hyshe, Jerome Kasle, Robert Kitchum, Esther Jacob, Larry Johnson and Francis Marie Jones.

Robert Lambert, Samuel Lazar, Richard Livesay, Kathleen McBurney, Jarvis McEmber, Michael Mason, Hercules Mitchell, Ann Montgomery, Mary Nagle, Gretchen Nierscher, Ruth Payne and Karen Puffer were also seniors who gained all A's and B's.

Still others who attained A's and B's were Linda Redwitz, David Richardson, Joanne Royer, Gayle Rushlow, Sandra Russell, John Seeley, Nancy Seymour, Judy Starr, Sharon Stewart, Peter Stukkie, Sharon Tippet, Beth Trawick, Carolyn Utter, Mary Lynn VanCampen, Stephen Wade, Wallace Weir, Denise Weir and Judy Wong.



"SOUTHWESTERN HOMECOMING QUEEN," Marvin Shebel, wins the rousing cheers of Central's sophomore and senior students at the first Central-Southwestern basketball pep assembly, January 16. (Photo by Mr. Dale Kildee.)

## Injun Antics

SU Valentine's Dance Feb. 18

Edited by Karyl Swayze

Bob Alexander's Band will provide the music as Central students attend the annual Valentine's dance at Ballenger Field House, February 18, 1961.

Admission to the dance, which is an occasion for casual attire, will be by Student Union.

Heading the committee planning the dance is Sue Gillett.

Reliques, Central's history club, will initiate seven new members at a meeting on February 14, at the home of Martha Blackmon.

The new members are Sharon Bailey, Pat Costello, Joe Eufinger, Darwin Johnson, Barbara Lueck, Nancy Silver, and Carol Weis.

The club is limited to 25 members who have had John Howe, club sponsor, for history, and who are chosen by the present members after an interview.

Foreign affairs is the club's main interest. The club has had several speakers from foreign countries recently and

is now planning to have a speaker in March.

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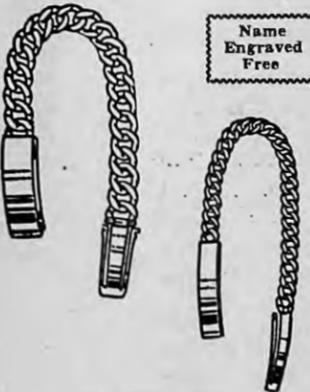
Members of Attic Players, whose sponsor is Miss Jacqueline Kramer, will have a swimming party Friday, February 24, in Central's pool. Each member will bring a date, and swimming entertainment in the form of games will be provided.

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## CHS Council Bans Candy, Soft Drinks

Members of the Central High Community Health Council met with their chairman Dr. Robert E. Anderson.

Results of the TB skin test were given. The average percentage of students having a positive reaction to the test January 18, was 2.8. An average of 1.1 is the goal set for 1970.

A committee report which recommended the following policies was read by Miss Luane Rue. Soft drinks, especially cola, should not be served in the school, due to the effect they have on the teeth.

Candy sales as class projects should be banned. However, the annual boxed candy sale by the band and choir organizations is permissible as sales are made primarily to adults.

Bake sales are allowed because the larger items are purchased by adults. Cookies and cupcakes, the items usually sold to students, are not considered harmful. The selling of caramelized apples once a week is permissible as these are basically nutritious.

Mrs. Ellen Smith reported on the committees studying the need for a full time nurse at Central. The committee requested that the administration, student council, parent committee, and Mrs. Mary Lou Foxworth, school nurse, submit a written analysis on the subject. The total report will then be submitted through Philip H. Vercoe, principal, to Dr. Evelyn Golden, Flint Public Schools physician, and Dr. Spencer Meyers, superintendent of schools, for consideration.



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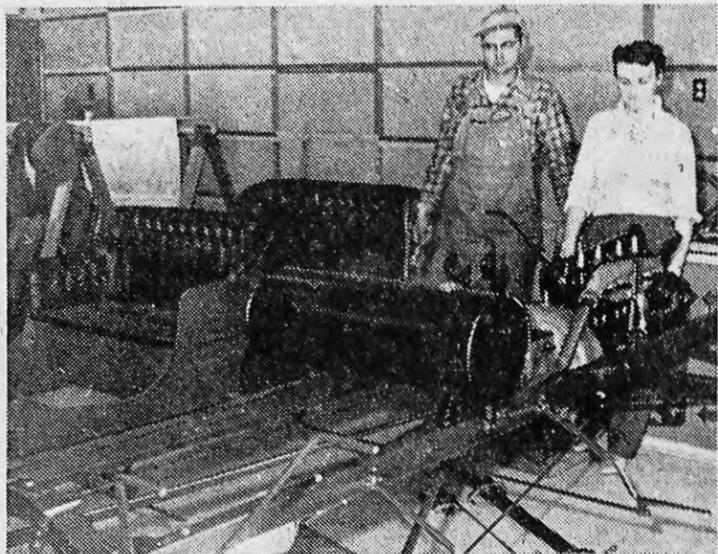


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GAZING AT THEIR DISASSEMBLED 1909 Ford are Mrs. and Mr. Robert Wilhelm. At the left is the body of the car while the chassis is at the right. The car and the Wilhelms have participated in many tours and car rallies. (Photo by Doug Ranger).

## Robert D. Wilhelms Thrill To 1909 Ford

How would you like to take a 200 mile tour in a 1909 Ford? Ask Mr. and Mrs. Robert Wilhelm what it's like. They will tell you it's one of the greatest thrills in the world.

Mrs. Herberta Wilhelm, secretary at Central, and her husband spend many hours each year in their car. They have recently installed aluminum pistons.

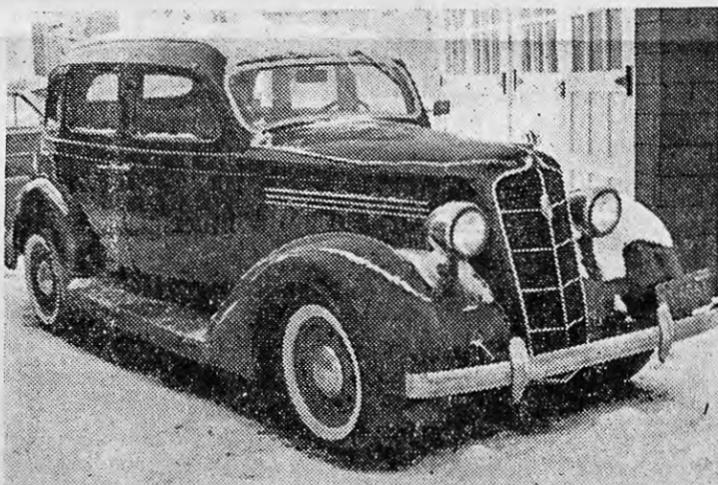
Since the Wilhelm's bought their car in September, 1956, they have participated in many rallies and tours. Some of these are the Greenfield Village Tour, the Blue Water Tour, and the Glidden Tour which is the national tour to Lake Placid, New York. The Wilhelms belong to the Veter-

an Motor Car Club here in Flint, which is for owners of cars built earlier than 1929.

Some special features of the 1909 Ford touring car are a one piece engine and transmission, a thermo-syphon cooling system which uses no water pump, and a two-point suspension system.

The car has an acetylene lighting system which produces the gas by a combination of carbide and water. Because it utilizes a gravitational fuel system when going up a steep hill, the car stalls for lack of gas. Therefore, the car is backed up steep hills.

The car has approximately 25 horsepower and will attain 50-55 miles per hour at 25 miles per gallon.



THIS 1935 PLYMOUTH, owned by Don Simpson, senior, makes its home at 2410 Mackin Road. Don has owned the car for about five months. It is a six cylinder and has a top speed of 75 mph. Don plans to make improvements in the body and in the motor soon. (Photo by Doug Ranger).

## Vehicle Industry Brings Prosperity

Even in 1900, Flint, manufacturing 100,000 carriages per year, was known as "Vehicle City" and has retained that name to the present for now Flint is one of the nation's largest automobile producers.

When the first auto was turned out in 1902, Flint was a city of about 7,000, living in an area of about eight square miles. It was surrounded by productive farm land.

Now, 59 years and hundreds of thousands of cars later, metropolitan Flint has grown to a population of well over 300,000. However, the cars produced in Flint today are much more dependable than cars placed on the market "way back when" for taking a ride in one of those old cars was considered quite adventuresome and daring because more likely than not the trip would end up at the roadside, the driver on his back under the car.

In 1903, Buick moved to Flint bringing with it more jobs.

In 1908, when Buick had its first boom, Flint was never more pressed for houses because the boom caused a shanty-town area to mushroom in the north end, quite a contrast from today with plenty of houses to go around.

In 1913, Chevrolet moved to Flint, providing more jobs and creating new jobs. The Flint Journal proclaimed that "no doubt it will develop into one of Flint's most substantial industrial institutions."

In 1920, Chevrolet ran into a financial crisis and in 1921, production was dropped by one half to 75,000. The suggested cure was to permanently close down Chevy as "there was no hope for successful competition against Ford." In 1922, Chevy production hit 200,000 and in 1926 Chevy facilities in Flint were doubled in size and output increased greatly.

In 1936-37, after the UAW seceded from the AFL, Flint was singled out as the battleground upon which the UAW

# Past - Future . . .

## Improvements Tell Tale Of Automotive Industry

Motor vehicle manufacturing is a typical American industrial development. From 1895 it grew to be the largest producer of durable consumer goods in the country.

As far back as 1953 automotive retail sales amounted to nearly 44 billion dollars, and motor vehicle traffic reached 5.5 billion miles. Almost 37 million families in the United States owned automobiles, and highway users paid upwards of 6 million dollars in special taxes. In 21 states taxes on fuel and licenses make up one-third of the total tax revenue.

In this same year the U.S. produced 79 per cent of the world's passenger cars, while Great Britain, the second largest producer, contributed only seven per cent to the world production total. Compared with 300 motor cars in the U.S. in 1895, of which only 4 were made in this country, there were 46 million in 1953.

The invention of the auto, which plays such an important part both economically and socially in our world today, was not the invention of a single mind, a single country, or a single generation. As early as the 15th century, Leonardo da Vinci saw the possibilities of a power-driven vehicle, and, in 1680, Isaac Newton proposed a "steam carriage." In 1769, Nicholas Cugnot, a French army captain, actually built a steam-powered carriage which traveled at a rate of about two mph and had to stop every hundred feet or so to build up a new head of steam.

About the year 1830, inventors began to turn to the internal combustion engine rather than the steam engine, but at the turn of the century there were 1,681 steam driven vehicles in the U.S., 1,575 electric powered autos, and only 936 with gasoline engines.

Charles Duryea is credited with building, in 1893, the first gasoline engine vehicle in this country. The following year Henry Ford built his first car.

Other pioneers in the automotive field include Ransom E. Olds, John Maxwell, and Francis Stanley.

Very soon the auto manufacturers began to realize that if

they were to make more cars, and consequently, sell to more people and make larger profits they had to have three things: (1) precision manufacturing (2) interchangeable parts, and (3) mass production.

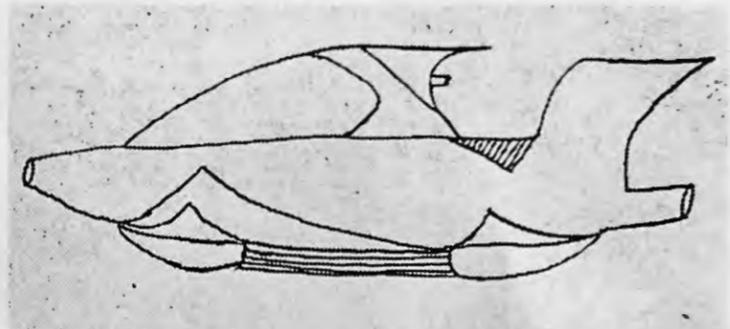
Ransom E. Olds was one of the first manufacturers to use the assembly line for mass production purposes. As early as 1902 the frames of his cars were pushed along the line on platforms with casters. In this way he turned out a total of 2,500 cars that year, while the previous year, without the assembly line, had shown a total yield of only 425 vehicles.

Ford was the first to use conveyor belts for his assembly line production. Until 1913

it took his company a day and a half to produce a "T," but by the use of the moving belts for assembly line production he began to turn out a vehicle every 93 minutes and by 1919, he was producing 7,000 cars a day. Ford's cars were all built exactly alike, even down to the color. A favorite saying of Henry Ford was, "You can have any color Model T you want, as long as it's black."

In the early 20th century the small companies were either being driven out of business or were consolidating in order to hold their own in the industry. Out of these consolidations grew General Motors in 1908, and the Chrysler Corporation in 1924.

## '1995' Design Illustrates Future Magnetic Cars



Earl Mills, a student in Charles Clark's auto shop, illustrates in the above picture what he thinks a car in 1995 might look like. It is called a MAG-O-CAR.

The car has no motor, and runs by magnetic cables. It looks something like a plane but runs more like a train.

It has no wheels but instead has spool-like bowls which are highly magnetic.

These bowls are controlled by a brake resistor which, when desired, shuts off the flow of the magnetic field

which is the only means of power.

So when the brake resistor is applied the pulleys under the steel rails stop, therefore stopping the car.

MAG-O-CAR has high tail and roof fins to supply stability or give balance to the car.

The car has no heavy engine parts so it is extremely light, weighing only several hundred pounds. It could gain speeds up to two or three hundred miles per hour.

Earl feels a modern car like this could be invented within a half of a century.

## They're Going Again

All hail the start of another great year  
When the talk of old cars is all you will hear,  
When bragging will come from the shy modest guys  
About some old junker they think is a prize.

The men and their buddies while shooting the breeze  
Will claim nineteen sixes as nineteen-o-threes,  
They read off a pedigree long as your arm  
In hopes that some listener will fall for its charm.

Each man in his woman saw something so great  
He readily asked her to be his life's mate,  
But he's not forgiving or is he too kind  
If weakness of character he'd chance to find.

His patience exceeds understanding of men  
When his antique car fails again and again,  
He finds an excuse for the pride of his life  
While he tolerates not the whims of his wife.

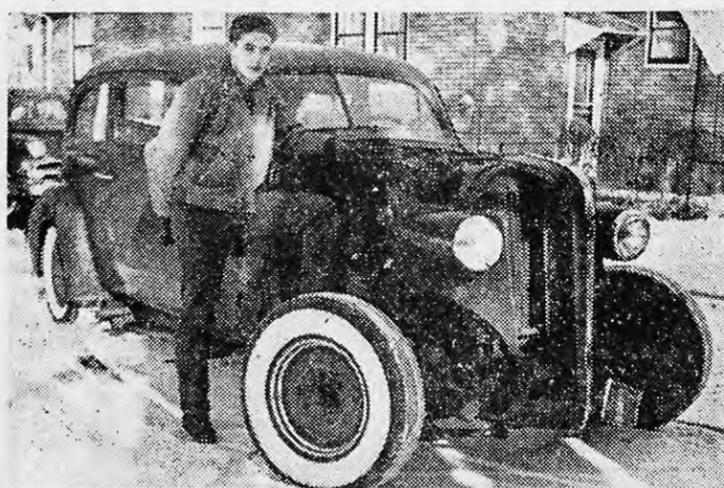
What is there about an old pile of bent tin  
That will stir up a nut some where deep within  
To part with his money and work day and night  
To mold and to shape its old body just right?

Men rise to a challenge and think it great fun  
To tackle a job others know can't be done;  
After tedious months of sweat and of tears  
Their pride and their joy in perfection appears.

And so every year when the winter is gone  
And tulips and daffodils bloom in the lawn,  
Neglected brave women and hard working men  
Have cranked their old cars and they're going again.

—Robert C. Beattie  
1960  
Member of Veteran  
Motor Car Club

# .. Cars Show Fad



"TIME AND WORK" could well be the motto of Don Lane when talking about his 1935 Buick Special. He installed a 1956 Buick engine in it recently. The engine cost \$27.50 at a junk yard. Don will use all of the engine's 255 horsepower when he drags the car at McBride's strip. The mill is a full 322 cubic inches. In addition the rod has a 1938 gear box with 1937 gears. (Photo by Doug Ranger).

## 52 Mishaps Occur in '60

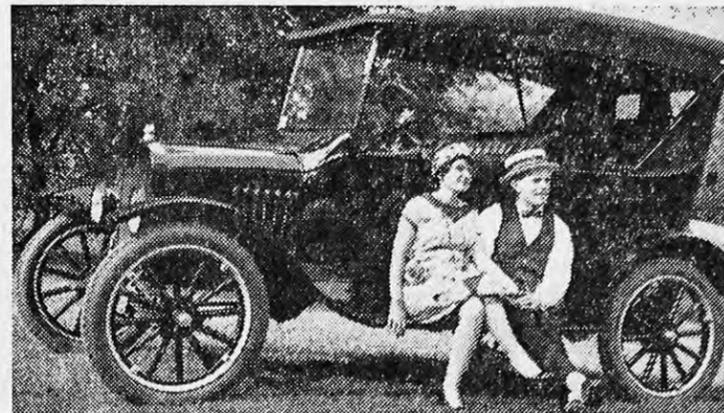
Last year the rate of automobile violations involving Central students reached the total of 45. During the second semester last year and the first semester this year, in 1960, the rate of accidents concerning some infraction of the law reached 52.

Therefore, this past year there has been a 13.7% increase over the previous year. If this increase continues during 1961 there will be approximately 60 accidents involving Central students.

In 1960 four of the accidents occurred during school hours, and one student was involved in an accident while riding in another person's car.

One hospital in Flint reports that 287 people admitted to the emergency ward during the months of November and December were involved in automobile accidents. Also, 30 pedestrians were struck by moving cars. Many of these accidents were due to lack of attention, courtesy, and responsibility of the drivers.

With a warmer season coming up, there will also be the seasonal jump in traffic accidents. Will you be included in an increased accident rate, or will you use common sense and courtesy to help the staggering auto accident total to decrease?



CHARLES AND HELEN CLARK pose with their 1923 Model T Ford at the Greenfield Village Rally in September of 1960. Mr. and Mrs. Clark are dressed in the clothes worn during the period when their car was new. At the Greenfield Village outing, Mr. Clark won a cranking contest and an obstacle race with his Ford.

## New Automotive Designs Present Streamlined 'T'

In 1923 a big change came about in the design of the Ford Motor Company's cars. The major change of the year was the introduction of a new body style.

According to Charles Clark, Central auto shop teacher and owner of the 1923 Ford (above), the new design gave the streamlined look to the Model T. The windshield was given a straight slope toward the back, and the whole car had sleeker lines.

The one-man top was also introduced in 1923. Up until that year it required at least two men to raise and lower the top. It was still much easier with the help of two men.

Mr. Clark's Model T is painted black because that was the only color available. Henry Ford always said, "You can

have any color you want, as long as it's black." The reason for this single color was that production costs were cut. All Model T Fords between the years of 1911 and 1927 were black.

Mr. Clark's car has a 20 horsepower, four cylinder engine, that will develop a top speed of about 45 miles per hour. Most of the parts on the engine and running gear are interchangeable with parts of the engine and running gear of any Ford built between the years of 1909 and 1927 so parts are still quite easy to obtain.

Mr. Clark spent many hours getting his car into its original condition but he says the outings and contests with others who have like interests make all of the time put in on the car worthwhile.

## Antiques on TV

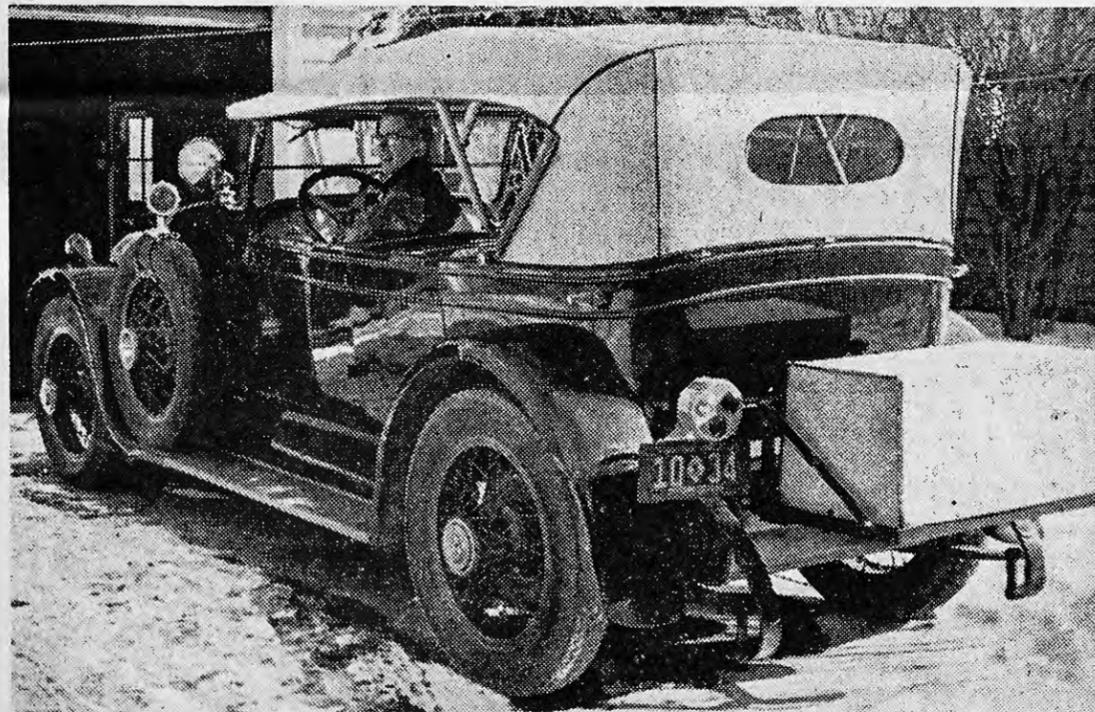
Television station WJRT in Flint will start out the antique car festivities at 9:00 in the morning on Sunday, April 9. The station will show a one-half hour production on how people in Flint preserve their antique cars.

The show, produced by Lee Davis, who lives at 2811 Mallery Street, will be a prelude to an old car show to be given at the IMA on the same day.

Sixty five cars, owned by members of the Flint Division

of the VMCCA, will be on display. The oldest car at the show will be a 1900 steamer. The antiques will cover the three decades into the 1930's. There will be 35 different makes of cars covering this 30 year period. Admission to the show will be one dollar.

The proceeds from the show will go toward books and periodicals to be given to the Alfred P. Sloan Jr. Panorama of Transportation after its construction.



DAVE BULLEN, JUNIOR, displays the family pride of 719 South Franklin Avenue, a very rare 1925 Cunningham touring car. The car was originally priced at \$7500, but when it was purchased by Dave's father in 1948, the only thing that worked on it was a clock. Since then it has been rebuilt into one of the three remaining cars of this model throughout the United States. (Photo by Doug Ranger).

## Bullen Family Rebuilds Relic Of Cunningham Touring Car

David Bullen is a member of the proud family at 719 S. Franklin who own a 1925 Cunningham touring car. The original value of this car was \$7,500 but Dave informs us that to place a value on it now would be impossible because of the man hours that went into rebuilding this relic.

It was purchased in Chicago by David's father in 1948. It was manufactured at a factory in Rochester, New York, which, in its best year, turned out only 400 cars. This was because Cunningham made ambulances and hearses and made custom built cars only on special orders.

This 1925 beauty has an all aluminum body and an aluminum block. To add a little glamour, the headlamps are made of solid German silver, as is the radiator. For luxury it has back-up lights which are automatic, and it also has trim. To pump air into the tires the owner connects a rubber hose to the transmission, turns on the ignition and he has his own compressed air unit.

The transmission has four gears, the fourth being overdrive. Also it has a special feature in hydraulic brakes.

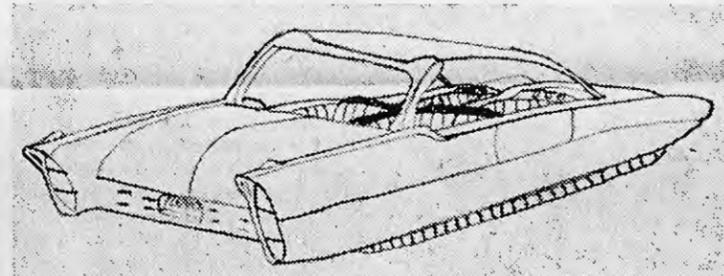
The wheels have 23 inch rims. The car has a wheel

base of 132 inches with a top speed of 85 miles per hour. The engine has eight cylinders and the 442 cubic inches produce 100 horsepower.

The car as it looks is maroon in color, silver trim, and is a four-door convertible, although most manufacturers don't make them anymore.

The Cunningham manufacturers went out of business in 1935, just ten years after the Bullen's car was made.

Mr. Bullen is a member of the V.M.C.C.A, an auto club here in Flint. The club is for people who own old cars. He participated in the Blue Water Tour with the Cunningham.



## Air To Propel Future Car

Whizzing over the ground, just a few inches from the surface, at over 100 miles per hour is one of the things scientists predict for the future. This will be done with air-cars such as the one above designed by junior, Douglas Flowers.

Included are a retractable top, and back-to-back seats contained in separate, padded compartments. Also, for maxi-

mum protection, safety belts are installed.

On the tail fins are reflectors which project on a television screen on the dashboard to show if the lights in the rear are working.

Air is the car's fuel. It is taken in and pushed through a propeller which forces the air out rapidly. As a result, the car is pushed off the ground.

Asked if these cars will actually be used, the designer answered, "Yes, I think they shall be used, for they can't have accidents. Even a strong wind won't push them off their track."

## Fisher Body Gives Prizes

Thanks to General Motors there are many opportunities for boys between the ages of 12 and 20 who are interested in making model cars.

Anyone entering the Fisher Boy Craftsman's Guild model building competition has a chance at one of the awards totaling \$65,000 in the national model car competition. Included in this are eight university scholarships valued from \$1000 to \$4000.

The competition offers boys training in design as well as craftsmanship.

The Craftsman's Guild has conducted 12 competitions and in those competitions has enrolled 2,371,000 boys. They have awarded 99 university scholarship trust funds valued at more than \$340,000.

The Craftsman's Guild was started in 1930.

## Rover Club Shows F-85

Road Rovers Club had its first meeting of the year Saturday, January 27 in the auto shop.

The club meets five hours each Saturday. During this time two work periods of two hours each are conducted. A meeting with a guest speaker takes up the middle hour. The group that worked the first period leaves after the meeting and allows another group two hours work.

At the January 27 meeting there was no speaker, since it was the first meeting of the year. Howard Holsinger brought a new Oldsmobile F-85. All of the members were given a ride. The car's features were discussed for the rest of the meeting.

## Chess Club Membership Open Again

Openings for players in Chess Club are now available. The club would like to play new members and opponents from other schools and clubs but chess players seem to be few.

The club now consists of 20 members who meet every Thursday in room 214 at 3:15 to play each other for order in chess rankings.

At the present time the active members of the club rank as follows: Gordon Brooks, Pete Houk, Gary Nelson, John Lossing, Ed Custer, Dave Yoder, John Bigler, Don Weaver, Margaret MacVicar, Wally Weir, Marianne Harris, Charles Hagler, and Terry Tremenwan.

One of the interesting things to watch in the club is a match in which Gordon Brooks is playing. He is the only player in the club who writes down the moves of the other player.

Many of the club members have stimulated interest in chess by giving lessons at different schools and organizations.

The club has a semester dues of 50 cents which is used to buy chess sets for the use of the club members.

Gordon Brooks is president of the club and Pete Houk is secretary-treasurer. The club sponsor is Clement Rowe.

## Club Members To Take Over

Off on a visit to Hamady House on February 13 will be the members of Central's Stepping Stone Club. Along with the Central Club will be members of Southwestern's Club who will be the guests of the Central club.

At Hamady House, the girls will put into practice the things they know about house-keeping by taking over the complete running of the house.

The Stepping Stone Club is sponsored by the Mott Foundation and is dedicated to the purpose of "making better girls for a better world".



CONCENTRATION AND CLEAR THINKING are some of the most important factors in a chess game. Absorbed in their games are Charles Hagler and Carl Carlson (back) David Yoder and Vernon Merritt (center) and Gordon Brooks and Edwin Custer. (Photo by Dave Rieder).

## Trading Post Mock Trial Proves Success

Compiled by Jill Walcott

Twelve civic students from Austin's high schools attended a mock trial says The Austin Maroon, school paper of Austin High, Austin, Texas. The purpose was to familiarize students with jury processes and to create interest. The subject before the court was a man who had murdered his wife. The students found him guilty and recommended life imprisonment. The two participants from Austin High considered the trial a success.

Students at Bay City Central High School, Bay City, Michigan collected a sum of \$276.23, publishes The Centralia, school paper, for a recent exchange student, Christiane Vos Fischer, who is back in West Berlin working at a hospital, taking care of mentally ill children, and earning money to support her seriously ill mother and herself. Christiane wanted to attend an art school to take an interior decorating course before her mother became ill. The students of Bay City Central hope that this sum of money will help her fulfill her hopes of attending art school.

Handy Pep, school paper of Handy High, Bay City, Michi-

gan, submits this article in which a teen-age girl turns her interest to a younger boy.

I did my best to show him how To hold his lips just so, I told him to be ready when I gave the signal "go."

He pursed his lips and closed His eyes and did as he was told,

It's hard to learn to whistle When a lad is three years old.

Wichita High School, Wichita, Kansas by way of The Southerner, the school paper, sends this chemical mistake made by a student.

Teacher: What's the symbol for water?

Student: HIJKLMNO.

Teacher: Where did you get that answer?

Student: Well, you said yesterday that it was H to O.

Eight students from Ann Arbor High, Ann Arbor, Michigan reports The Optimist, school paper, will attend the twelfth annual session of the Model United Nations Assembly. This year it is to be at Hillsdale, Michigan and Ann Arbor High will be representing Sweden.

## JETS Attend Two Lectures At Consumers Center, GMI

Members of JETS Club, Junior Engineering Technical Society, attended two lectures during the week of January 22.

The first lecture was on January 23 at General Motors Institute. R. W. Smith, Ph.D., who is with the AC Spark Plug company, delivered the lecture on spectroscopy.

In the lecture Dr. Smith pointed out the application and advantages of emission spectroscopy. Some of the ways it is used are to tell what metallic elements are present in a substance, to watch the progress of a chemical purification, and watch the progress of a chemical analysis.

Other things mentioned were dealing with the periodic table and the characteristics of the different groups.

After the lecture, Dr. Smith passed out spectroscopes and a few books on crystal growing.

The second lecture was on January 26 at the Consumers Power Service Center where E. I. LaBarine, who works for General Electric, spoke on the subject "Foreign Competition and How It Will Effect the Engineer of Today and Tomorrow."

He began the lecture by talking about the era of

change which is now present. While talking on this subject, Mr. LaBarine expressed the opinion that taxes would be less if other nations were helped to stand on their own feet economically.

To illustrate the point that the United States is in an unending fight to keep ahead of foreign competition, the movie "Toshiba in Progress" was shown.

The movie told of the Japanese equivalent to General Electric and what it was doing to offer competition to the United States.

Toshiba makes 85 per cent of the transistor radios in the United States, has advanced equipment to fight cancer, and has television stations equal to ours.

The next lecture will be around February 23 and will deal with atomic power.

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## Belle Masque Selects Play

"Us Girls", by Winifred Storer is the title of the Belle Masque Club's play. The play will take place March 2 and 3.

The story is about a girls' school; therefore, it employs a mostly feminine cast.

The girls are Judy Purdy, Rita Schipper, Marquise Conaton, Jean Klein, Judy Yahr, Carole Schwyn, Rita Schaefer, and Kathy Smith. Others are Robin Cuppernoil, Jackie Madison, Ingrid Schlensky, Roberta Rowe, Sally Saller, Joayn Rule, Martha de Boer, Mary Nagle, and Dennilye Sutton.

The boys in the cast are Chuck Locher, Gary Nelson, and Leslie Wheaton.

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## Class Starts Preparation For Spring Swim Show

"There is more to it than meets the eye."

This certainly holds true for the water show which is given annually by the synchronized swimming class.

Each year a new group of girls is tested and selected to be a part of the class. Then the work begins.

The girls who participated in the show last year who haven't graduated, or the ones with more training, teach new stunts to those who have had less experience.

When the class has decided on a theme for the show, Mrs. Kathleen Schindler, sponsor, places the girls into groups ranging from two to six, according to the similarity of their strokes and ability.

The groups choose the music appropriate for their act and then start the organization of the strokes in the water. Then the long sessions of

practicing, changing and revising, and then more practicing and polishing begin.

Behind the scenes the girls help with the lighting, scenery, and preparation for dress rehearsal. They also design and make their own costumes.

The finalists who were received into this year's synchronized swimming class are: Myrna Borneman, Jean Briner, Diane Cutler, Jill Comins, Virginia Cook, Gloria Fan, Jo Ann Guile, Sue Gillett, Sue Harrington, Janet Heinrich, Libby Hubbard, Nancy Hunter, Sue Jackson, and Linda Jesick.

Others were Barbara Kasynski, Kay Kliss, Kay Kremesic, Linda Kronlund, Barbara Lueck, Jeanne MacArthur, Holly Montgomery, Mary Phillips, Carol Scott, Karen Smith, Sally Thorpe, Sue Thorpe, Merrily Watters, Rita Whaley, Jean Williams, and Emily Worley.

## Team Works Against Odds To Take Title

Winning a girl's intramural volleyball tournament is a great accomplishment for many obstacles must be conquered.

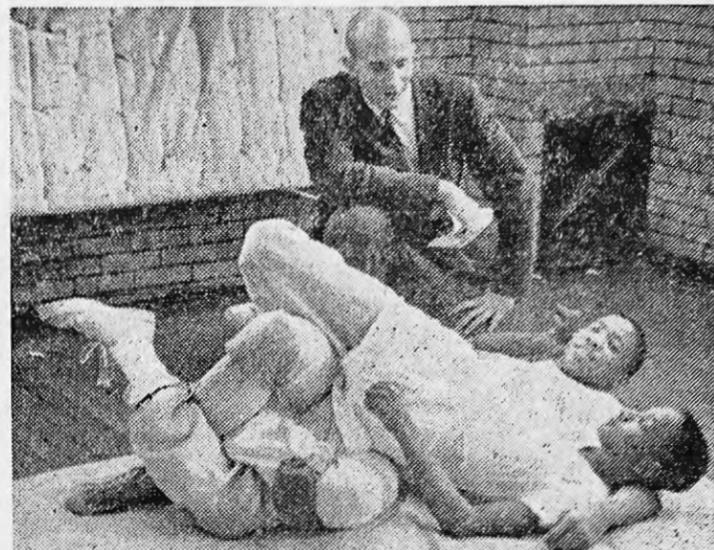
Making sure enough team members are present is the first and biggest problem. At last when members are rounded up, there is the problem of finding suitable "working" clothes. Many of the girls even play in their barefeet because they forget their tennis shoes.

The gym must be cleared of basketball players, weight lifters and mat rats before the highly air-conditioned nets can be set up. One needs to take weight-lifting before lifting the heavy iron poles. But, at last, playing can commence after considerable complications.

The art of playing volleyball is enjoyed especially by the girl who doesn't mind being stepped on by team-mates, hit by the ball, or by a stray fist. Teamwork is all important for it takes nearly a whole team to get the 26-ounce ball over the net. Then there are times when the team just stands glued to the floor and watches the ball hit amidst the idle watchers.

On several occasions well placed hits land among the chairs in the balcony while others sail through the basketball net. In this game, alas, a basket does not count two points.

As of January 30, the girls who best managed to overcome these obstacles were Doris DePottey, Leslie Forham, Edna Lay, Dyania Holley, Clara Owens, Joann Lawson, Bobbie Williams and Betty Anderson.



PRACTICING HOLDS FOR WRESTLING are Leroy Burke (bottom) and Bob Buford. Coach Dean Ludwig gives the boys tips on improving. (Photo by Dave Rieder).

## Matters Bounce Colts 29-16 For Second Win of Year

Losing their third match of the season, Central's mat rats tumbled to Owosso, January 18, with a score of 35 to 8. So far this season Central has a 2-4-1 record.

Our winners against Owosso were Hugh Parker, 154, and Earl Ruffin, 103. Bob Buford had a draw at 133.

The match against Southwestern on January 26 was a very important one for the Central wrestlers. The match bettered the records of the last two seasons combined. Central won with a score of 29 to 16.

Winning by decision were Bob Buford 103, Carl Steppes 120, and Tom Bucklew 180. Winning by pins were Leroy Burke 138, Earl Ruffin 103, and Denny Jager, heavy weight. Ken Boaz tied at 165.

In another loss to Bay City Handy on January 31 Central bowed 39 to 13. Winners were Hugh Parker 154 by pin, Bob Buford 103 by decision, and Denny Jager heavy weight by pin.

Bob Buford has the best record of any boy on the team. At present he has a 5-1-1 record. Hugh Parker has had the most wins and is high

point man on the team. He has an 8-3 record. Close behind are Denny Jager 6-3 and Earl Ruffin 6-4. Leroy Burke and Bob Sirna have better than 600 per cent records, 4-3 and 4-3-1 respectively.

On February 10, Central lost to Northern 41 to 10. The winning matrats were Denny Jager heavyweight by pin and Leroy Burke 138 by decision. Hugh Parker 154 drew against his opponent.

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## Balance Key to Conquest

As in most sports, the spectacular remains to be the outstanding performance or success story by an athlete.

Basketball is no exception. Leafing through Saturday evening's sports section you generally find some star who has hit big, and single handedly led his team to victory, although many other times his team will go down in defeat despite his vainest efforts.

By far, the wiser coaches know that a team with unity and balance will win many more games than any one individual star ever could.

Because of this, Central's star consists of not one man, but five working together as a unit. These men are Cloyce Dickerson, Dick Horning, Rick Moore, Jerry Roberson and Jim Toles, starting players for our basketball squad.

As you can readily see, our star is larger than the usual, but it goes farther yet. On the bench are the remaining eight men of the thirteen—members squad, eager to do their best on a moment's call by Joe Dowdy, basketball mentor.

This balance sticks out like a sore thumb when you take a quick look at the statistics.

In round figures, Dickerson leads the scoring with about 15 points a contest. Roberson and Horning are averaging about 12 a game, while Toles and Moore offer balance by making over ten points apiece in each contest.

In rebounds, Toles averages 11 a game. His two front-court partners combine to get about 13 and the back-court has about ten to their credit.

In assists, or acts of helping the team, the guards have con-

tributed key plays seven times in each outing, while the front-court men have made key plays five times.

With balance like this, Central has proven to be tough on their Saginaw Valley opponents.

It is very encouraging to the varsity and Coach Dowdy that the student body has reacted well to the team, with the white shirt sections and vocal support, led by the nucleus, the cheerleaders.

Let's hope Central keeps this unity and balance between the team and the student body and goes on to be representative of the type of teams we all want to be known as.



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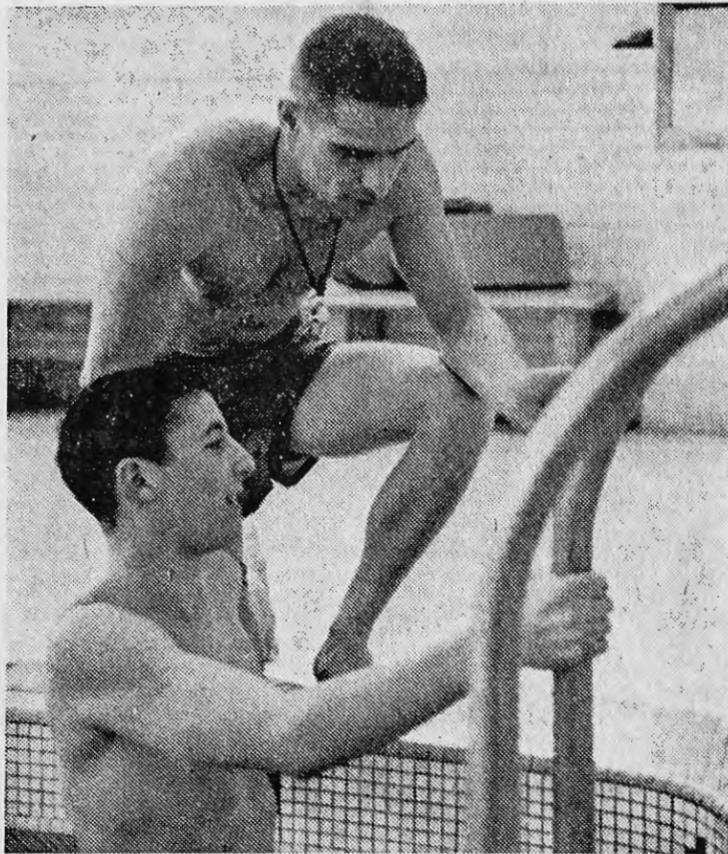
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"THAT A BOY, JOHN," says Wally Dobler, swimming coach, as he congratulates John Kaufherr for breaking several records. He has broken his own record for the 200 yard medley relay several times, the most recent being at the Arthur Hill meet. (Photo by Dave Rieder).

## Medley Star Cops 15 of 20

Swimming records, like all others, are set, broken and replaced along with Father Time.

Few can match the fast pace which holds the standards at Central, but senior John Kaufherr seems to defy Father Time and all who wish to challenge him at his specialty, the 200 yard individual medley.

Kaufherr, alternating every other meet through the Arthur Hill duel, has broken the city record with a 2:28.2 clocking the varsity 200 yard individual medley record with a 2:26.2 time and the 160 yard individual medley (swum in a 20 yard pool, rather than the standard 25 yards) with a 1:53.3 effort.

To do this, he has splashed his way to 15 first places in the 20 events he has taken part in, including the 200 and

160 yard medley, the 50 and 100 yard freestyle, plus anchoring a winning 200 yard freestyle relay.

For the fourth time in the last six meets, John Kaufherr broke the 200 yard individual medley record for Central in a 71-34 loss to Northern February 1 at Durham Pool.

Kaufherr lowered his own varsity record by .3 of a second to take the event with a 2:27.9 clocking.

Coach Wally Dobler's time, patience and rugged practice sessions paid off for the Indians in an away meet against Pontiac February 3.

Heading into the two final relays, medley and freestyle, Pontiac led, 42-38. At this point, that little extra push put out by Gary Latimore, Bob Kraft, Ron Nelson and Rick Skellenger in practice proved the difference as Central won the 200 yard medley with a 1:34 time bringing the score to a tie, 46-46.

Next, the 200 yard freestyle relay composed of Jim Mirgon, Jack Cooper, Larry Piper and Dick Livesay topped off the upset as they churned through the water in a 1:25.5 clocking to win and give Central the meet, 54-50.

John Siler in the 400 freestyle, Paul Speck in the 100 backstroke, John Kaufherr in the 100 freestyle and Dave Schafer in the diving took firsts to bank the victory.

The vast improvement can be seen as the tankers were defeated by Pontiac in their first meet, 63-48. The win brought the Indians' records to 2-8 for the season.

## Central Sophs Take Bay City Drop to Fenton

Lake Fenton's sophomores paced Central starters, Robert Schmelzer, William King, Jordan Fehlig, Lester Thompson and George Wooten, 63-48. The game was played on January 23 in Fenton.

King was high point man with 14 points, and Schmelzer was second with 12 points.

Undaunted by the defeat, Central's five went to Bay City on January 26 and came back victorious 58 to 38. King was again high point man with 22 points, and Schmelzer was second with 13 points.

On February 2, Central was on the road for the fifth consecutive game. This time Central took a tough setback, losing by only four points, 53-49, to Pontiac. King was again high man with 33 points. Schmelzer was again second with seven points.

The team has an overall record of six wins and four losses attributed to their efforts for this season's games played to date. The sophomores have won two and lost four on the road.

Coach James Hughes stated that although the team has not suffered any serious injuries, several players have been lost because of ineligibility.

## Drive Fails in Overtime

Outclassed during the first three quarters, the Central netters showed their superior colors during the last period against Saginaw Arthur Hill, January 20 in which they battled back to tie after a 13 point deficit.

The late rally led by Cloyce Dickerson with 6 and Jerry Roberson with 8 pushed the Tribe from 13 points behind to only a six point spread with 4½ minutes remaining.

While the Indians went scoreless for the next three minutes Schumacher and Dill of Arthur Hill scored to give the Hillites a 56-49 lead.

Then, with 1:25 to play Jim Toles scored two free throws, with 1:15 left Roberson scored, and with :55 left Dickerson scored to pull within a point.

Kurt Schultz of A. H. made a free throw to push their lead to 57-55, but Horning's swisher from the corner sent the game into overtime. The overtime

## Tie for 3rd in Valley

# Tribe Reaps Vengeance

With a 53-48 win over Pontiac February 3, Central moved to a third place tie with that same school but its position in the Valley Conference does not indicate its ability to work on a basketball court.

Central's short sharpshooters punched Pontiac's rangy rebounders with a defense that harassed the visitors' guards so they couldn't get the ball in their tall front line to offset the Tribes' .382 average.

Pontiac averaged a poor .246 on 17 for 69 to nullify their rebounding advantage of 52 to Central's 26. Pontiac's front line averages 6-4 to Central's average of 6-1 but the Chiefs couldn't use the height without the ball.

Rick Moore was high for the game with 19 points as he hit 7 of 11 and Jerry Roberson ended with 15 on 6 for 13. The Indians averaged a white hot .500 for three periods and outscored 13-9 the Chiefs' in their only poor quarter 4 for 21.

In the first quarter Flint and Pontiac swapped the lead over and over till a seven point blitz put Central ahead for keeps.

Although Central's ball thieves stole the ball only twice they hurried the Chief's top scorer Clarence Douglas so he hit only one of fourteen. Guard Roy Couser missed all ten of his shots.

Central	G	F	T
Horning	4	0-0	8
Toles	2	2-5	6
Dickerson	2	0-3	4
Moore	7	5-7	19
Roberson	6	3-4	15

Mer'wthr	0	1-1	1
Totals	21	11-20	53
Pontiac	G	F	T
Pritchett	5	2-5	12
Fed	4	5-8	13
Kennedy	6	2-4	14
Couser	0	1-2	1
Douglas	1	2-5	4
Brown	0	0-0	0
Diehm	1	2-2	4
Totals	17	14-26	48
Central	16	13	11-53
Pontiac	17	9	9-13-48

## Bench Warmers Welcome Chance To Prove Skills

Coach Joe Dowdy decided to give his bench-weary cagers a real chance to play instead of aiming for a school scoring record as Central racked up an 80-47 win over Bay City Central.

With a 56 to 18 lead at half time, the Tribe mentor had a good chance to break the 106 point scoring record but instead chose to develop his bench strength and so replaced his first string except for Cloyce Dickerson who played most of the third quarter.

As it was, of the leading five, four scored in double figures including a 21 point effort by Jerry Roberson, and eleven players scored for Central altogether. Central connected on 34 of 71 attempts for a season high average of .479 while Bay City bagged a .292 average.

The first two quarters saw Central outscoring the Wolves 23 to 14 and 33 to 4.

Roberson was white hot as he hit 10 field goals in 14 attempts and stole the ball three times in 10 seconds for two baskets and a third which didn't count when cut off by the halftime buzzer.

Scorers for Central were: Horning, 12; Toles, 8; Dickerson, 11; Moore, 10; Roberson, 21; Copeland, 4; Merriweather, 2; Barnett, 4; Cooper, 3; Mitchell, 1; and Wells, 4.

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