

Exhibition of Action Photography Is To Be Opened on Friday at Cranbrook

Nearly all types of the photographic recording of action, with the exception of motion pictures, will be shown in the exhibition Action Photography, which will be open at the Cranbrook Institute of Science on Friday and remain on view through Friday, July 7, after which it will continue on a tour of the country under the direction of New York's Museum of Modern Art.

The chronological range of the exhibition starts with an 1837 daguerrotype of a Paris street showing a man having his boots shined and continues through the multiple-camera pictures made by Muybridge in 1877 and the multiple-exposure experiments by Marey in 1888, both of which were forerunners of the movie; the hand camera, the miniature camera, lens and war photography; astronomical photography; the silhouette method where the shadow is recorded directly on the sensitized plate or film by electric spark without the use of a camera; and the most advanced stroboscopic photography of today.

Nancy Newhall in Charge Nancy Newhall, acting curator of the Museum of Modern Art's department of photography, has directed the exhibition and is being toured by that museum's department of circulating exhibitions.

Prefaced by a brief historical introduction, the exhibition is divided into parts: photography. Action so rapid as to be invisible is caught by flashes of light one millionth of a second in duration. Use of high-speed photography in science, war, and industry.

Stroboscopic Exposure. Action photography as a means of expression, presented through the esthetic movement, has inspired and through special uses such as anemias, war, movies.

The exhibition shows a series of photographs by Eadweard Muybridge, a photographer hired in 1872 by Leland Stanford of California to enable him to win a \$25,000 bet that a galloping horse lifts all four feet off the ground at once. The task in that day of slow wet plates was enormous but in 1877 Muybridge and a railroad engineer lined up a battery of cameras on one side of a race track. Along the track at intervals they laid wires by which the passage of the horse electrically tripped the shutters of the cameras.

Muybridge succeeded in getting sequences of clear silhouettes. Published in various scientific journals in 1878, they brought him in contact with scientists and artists everywhere, notably Thomas Eakins, the Philadelphia painter, French physicist Louis Bragg, and French physicist Louis Bragg.

Marey, observing certain flaws in Muybridge's system, continued his own experiments in recording motion. By prolonged exposure—allowing light to enter the camera continuously—Marey found he could record the path of a luminous object through space. By multiple exposure—interrupting the light at brief intervals—he could

obtain successive images on the same plate. Muybridge demonstrated the possibility of high-speed photography. Marey established it as a means of scientific analysis. Meanwhile, other workers were carrying on the experiment of photography by the light of an electric spark motion too fast for the human eye to see clearly—an experiment first made in 1851 by Dr. William Henry Fox Talbot, inventor of the negative-positive principle of photography. In 1885 Ernst Mach of Vienna, by timing an electric spark, succeeds in photographing without a lens, the shadow of a bullet in flight with the sound and heat waves it engenders. This method is still in use.

Flash Photography In 1930 Harold E. Edgerton, an electrical engineer, began the task of perfecting speed-flash photography. His chief contribution is a gas-filled strobeoscopic lamp of great brilliance whose flashes can be controlled with absolute accuracy. When set for a single exposure, this lamp produces a flash of even greater intensity and brevity. The resulting clarity of work, whether in motion pictures, multiple or single exposure, Edgerton has brought strobeoscopic photography out of the laboratory and made it available to the world.

Many Exhibits Photographers whose work is shown in the exhibition include Thomas Bouchard, Margaret White, Henri Cartier-Bresson, Thomas Eakins, Alfred Eisenstaedt, Eliot Elisofon, Morris Engel, Andreas Feinberg, Dr. Arnold Genthe, H. J. Hagenbuch, Helen Levitt, Renne Lohse, Paul Martin, Herbert Matter, Milton L. Lisette, Monte, Barbara Morgan, Arthur Palmer, Dr. Erik Salomon, Adriaen Stieglitz, Paul Strand, William Vandivert, and Weegee.

The newest exhibition at the Cranbrook Institute of Science will be open to the public daily from 2 to 5 p. m. from June 16 through July 7, excepting July 1, when the Institute is closed.

Encyclopaedia To Remove Traditional Art Exhibit Hush E. H. Powell, president of the Encyclopaedia Britannica, announces the collection of 20th century paintings by American artists. Approximately 300 paintings have been purchased to date, including the Pod Gatherer by Zoltan Sepeshy, head of the painting department at the Cranbrook Academy of Art. There are now 14 public collections in this country displaying the work of Mr. Sepeshy. Twenty by John Carrol, the only Michigan artist who has been exhibited in the Encyclopaedia.

The collection to be made available for loan exhibits and Mr. Powell plans to offer the loan arrangement to bomber plants and factories as well as to art centers. It is his hope that a wide spread exhibition of art to the people may eliminate the hush attitude that Americans have seemed to accept in connection with art exhibits, mainly because of awe-inspiring surroundings.

The collection will be shown as a unit next season at the Art Institute in Chicago. Many of the paintings may be reproduced in full color in the Encyclopaedia and other Britannica publications.

Cranbrook Board Elects Lee A White Chrmn.



The board of directors of Cranbrook has announced the election of Lee A. White as chairman, succeeding Thos. Johnson, right above, rector of St. John's Church, Detroit. Mr. Johnson will continue to serve as a member of the board.

Mr. White, left in photo, is a resident of Birmingham and is director of public relations for the Detroit News. He has served as a member of the Cranbrook School board of directors since the founding of the institution in 1927.

Previous to that time Mr. White served on a committee which traveled through the middle west and the eastern states, visiting leading preparatory schools and formulating plans for Cranbrook School. He has served continuously as secretary of the board of directors

and his complete detailed minutes of these meetings have provided a history of the development and growth of Cranbrook. Mr. Johnson, right above, rector of St. John's Church, Detroit. Mr. Johnson will continue to serve as a member of the board.

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Church News

First Presbyterian Church, Rev. W. C. Harris, P. D.—Minister. Miss C. E. Harris, Director of Christian Education. David C. Harris, Parish School. Sabbath School at 9:45 a. m. Morning Worship, 11 a. m. Sermon: "He Is the Peace of God." Holy Communion, 7:30 p. m. Service Friday at 7:45 in the Church.

St. James Episcopal Church, Rev. Walter L. Fogarty, Rector. Prayer, 12:30 p. m. Deaconess Olive M. Robinson, Assistant, 2:30 p. m. Morning Service, 7:50 a. m.—Morning Service and Sunday School, 10:30 a. m. Holy Communion the first Sunday of each month at 11:30 a. m.

Christ Church Cranbrook, Rev. Robert L. DeWitt, Rector. Miss Evelyn Grayson Buchanan, Director of Christian Education. Holy Communion, 8:30 a. m. Church School, 11 a. m. Morning Prayer and Sermon, 11 a. m. Holy Communion the first Sunday of each month, 11 a. m.

United Brethren Church, 1200 W. 12th Street, Rev. Ralph Orr, Pastor. School, 10:30 a. m. Worship Service, 11:30 a. m. "Here You Are Not a Stranger."

First Baptist Church, 1100 W. 12th Street, Mr. Frank Boyd, Supt. Mrs. Harold Stokes, Choir Director. 10:30 a. m.—Sunday School. 11:30 a. m.—Morning Worship. Youth Fellowship meeting at 6:30. Adult Fellowship meeting at 7:30. Evening Service, 7:30 p. m. Wednesday evening at 7:45. Hallelujah service.

Calvary Baptist Church, 148 Preston Ave., Pontiac. Rev. Tom Malone, Pastor. Phone Pontiac 4-2228. Sunday School Superintendent: R. Smith. Sunday, 11:30 a. m.—Sunday School. 10:30 a. m.—Morning Worship. 7:30 p. m.—Evening Service.

Southfield U. P. Church, Rev. Frank Boyd, D. D., Pastor. 11 a. m. Morning worship. 11 a. m. Church school. Morning Prayer, 11:30 a. m. Family night every Friday.

English Lutheran Church of the Redeemer, 1300 West Way. Rev. W. G. Wiggins, Pastor. Office: 2142 W. Residence: 2142 W. (near Clark Court) and Director of Choir. Morning Worship, 11:30 a. m. Sermon. Wednesday, June 21—Sunday School week at Bobo Island.

First Methodist Church, Rev. Charles C. Becker, M. A., S. T. B., Minister. Miss Mary E. Anderson, Director of Choir. Rev. W. Schmidt, Organist. Richard B. Reed, Church School Supt. 10:30 a. m.—Sunday School. 11:30 a. m.—Church worship. Sermon. The Salvation Army will meet in the church.

Embury Methodist Church, Bennetts and Woodward. Rev. Max O. Moore, Minister. Rev. Wallace Church School Supt. 10:30 a. m.—Church worship. Sermon. The Salvation Army will meet in the church.

First Church of Christ, Scientist and World's Advance. "Christ and World's Advance." The Golden Text: "Whosoever shall do the Father's will shall remain in the Father, and the Father shall remain in him, and they shall come into the Father, and the Father shall remain in him." The Golden Text: "Whosoever shall do the Father's will shall remain in the Father, and the Father shall remain in him, and they shall come into the Father, and the Father shall remain in him." The Golden Text: "Whosoever shall do the Father's will shall remain in the Father, and the Father shall remain in him, and they shall come into the Father, and the Father shall remain in him."



Go to Church, Sunday 10 A. M. Communion and Sermon—Hear Dr. Leland L. Marion "Rescue Work By Angels" 10 to 12 Noon—Children's Church and Bible School 11:20 to Noon—Adult Bible Study 7:45 P. M. Children's Day Program and Sermon by Rev. LOLA P. MARION TONIGHT—THURSDAY—8:00 P. M. Dr. Marion speaking on "Christ's Triumph Over Satan in the End Days"

Tune in WCAR Every Weekday, 8:15 A. M. Bible Studies That You Will Enjoy PEOPLE ENJOY COMING TO THE CHRISTIAN TEMPLE 295 So. Woodward—Nondenominational THE FRIENDLY TEMPLE

Strictly Fresh What news will Gen. Eisenhower get from us?

FROM primary returns for non-commissioned Tom Dewey and the fourth term, one is led to believe that the office of president of the United States is having trouble making up its mind. It is seeking two men.

Wrote a poet to Hitler on his birthday: "If we love thee, our innermost soul, we love Germany. Thou art the sap, the seed, the root." Not to say the bark and the fertilizer.

Headline: Yanks Over France, Battered Nazis. Probably warming up for another try at Madeleine from the Arromanches.

A law of Memphis, Tenn., forbids a wife to appear on the street in her husband's clothes. Memphis folks, no doubt, do not intend to be fooled by a cue in a wife's clothing.

The War Department subtly gives away the fact that professional style politics has gained a foothold in the Army in announcing that a soldier may request infantry duty. Now the GI can at least ASK to take a walk.

U. OF M. OPENS JULY 3 The third summer term and the usual eight-week summer session at the University of Michigan will both open on July 3 this year, and an estimated 2,600 servicemen and 3,000 civilian students will be in attendance, according to University officials.

Save by Sewing to Buy War Bonds. Black and white for summer, seeming fresh and new every year, are combined here in crisp plaid cotton. The bias cut acetate, sleeves and pocket shades are fashion points worthy of note. In addition to the pleasure of creating your own clothes, there is another reason for sewing these days. It is patriotic, for by making your own you release the cover and machinery for the war effort, and you can buy more War Bonds with the money you save. This or a similar pattern is available at your local stores. Back the Attack—Buy More Than Before. U. S. Treasury Department

PECK'S Cash and Carry. Suits, Topcoats, \$1.09. Plain Dresses. CLEANED and PRESSED. Phone 230. WOODWARD—NEAR MAPLE. MirraMoth Immunizer. The Sensational Discovery of DR. CARVER, world famous scientist, is now available to the public. MIRRA MOTH IMMUNIZER can be sprayed on your clothes, rugs, upholstery, and drapes. It actually makes fabrics non-eatable to moths. This stainless, non-inflammatory spray prevents all moth damage and materials will stand 100 dry cleanings before they need re-spraying. No odor after spraying. SAVE HIS WARDROBE FROM DAMAGE. Save Servicemen's clothing from moth damage. All you have to do is spray once. No mitering away is necessary. McBride Hardware. 122 S. Woodward. Phone 255. Member Retail Merchants Association.

What news will Gen. Eisenhower get from us? You know now what we've heard from him. We've heard that Eisenhower and his Americans have hurled themselves like a thunderbolt against the bristling defenses of Hitler's Wehrmacht! We've heard that they are battering and smashing at our foe—spraying neither steel nor sweat nor blood in one final, furious assault that marks the supreme military effort of this War! And what news do Eisenhower and his men expect from us? Men and women of America—what the Invasion is to our fighting men, the 5th War Loan is to us as home! For us as well as for them, this is the crisis—the time for tremendous, overwhelming effort! Make no mistake! The 5th War Loan is the biggest, most vitally important financial effort of this whole War! If the 5th War Loan is to succeed, each one of us must do more than ever before—must buy double... yes, triple... the Bonds we bought last time. Our men expect to hear that we are buying double—that we are matching their sacrifice as best we can—that the American nation, soldiers and civilians together, is making one gigantic effort to win this War! That's the news our men expect to hear from us. Will you personally see that they get it? And here are 5 more reasons for buying Extra Bonds in the 5th! 1. War Bonds are the best, the safest investment in the world! 2. War Bonds return you \$4 for every \$3 in 10 years. 3. War Bonds help keep prices down. 4. War Bonds will help win the Peace by increasing purchasing power after the War. 5. War Bonds mean education for your children, security for you, funds for retirement. Back the Attack!—BUY MORE THAN BEFORE! THIS ADVERTISEMENT SPONSORED BY CONSUMERS POWER CO. BIRMINGHAM FRUIT CO. SFIRE BROTHERS MORTIMER'S MEN'S STORE WILLIAMS BOOT SHOP MULHOLLAND'S R. B. SHOPS This is an official U. S. Treasury advertisement—prepared under auspices of Treasury Department and War Advertising Council