

We're Now NASA

Work on plans and programs of the National Aeronautics and Space Administration has progressed to the point where the new space agency will absorb the personnel, facilities and research activities of NACA at the close of business today, September 30. The Lewis Flight Propulsion Laboratory is now the NASA Lewis Research Center.

The action came nearly a month sooner than the statutory requirement that the transfer by proclamation in the Federal Register be made not later than 90 days after the date of enactment of the Space Act, (President Eisenhower signed it July 29). Dr. T. Keith Glennan said he would soon announce details of the NASA organizational structure.

The Langley Aeronautical Laboratory will be renamed the Langley Research Center and the name of the Ames Aeronautical Laboratory will be changed to Ames Research Center. No change of name is pending for the High Speed Flight Station, Pilotless Aircraft Research Station, or the Plum Brook Research Reactor Facility. NASA takes over NACA Headquarters in Washington.

At the same time the 28 committees and subcommittees under NACA will be reconstituted as Advisory Committees to the Administration until the end of this year for the purpose of completing their work. Existing policies, regulations and similar matters governing NACA activities are to be continued in effect by the Administrator until changed or abolished.

STAFF INVITED TO SUBMIT DESIGNS FOR NASA INSIGNIA

NASA Headquarters has sent the request that Lewis staff members be invited to submit proposed designs to be considered as the official insignia of NASA.

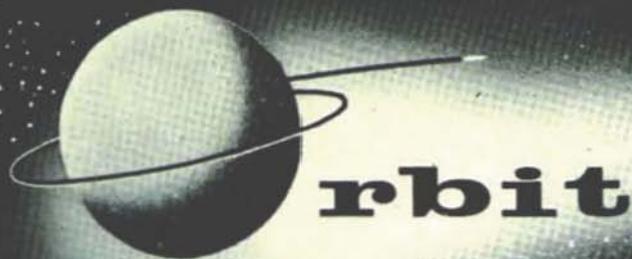
The designs should symbolize aeronautical and space research, and flight operations.

In preparing the designs, keep in mind that the insignia will be used for a variety of purposes; as lapel emblems, on NASA buildings and facilities, and on the official seal - which will be round.

Designs need not be finished art; they may be submitted in rough draft form.

Any employees interested in contributing their ideas on the subject may send them to James Modarelli, Chief, Research Reports Division, and they will be forwarded to NASA Headquarters. Designs will not be returned to contributors.

ORBIT will publish an announcement and picture of the official insignia as soon as it has been finally approved by NASA officials.



orbit

Vol. XVII

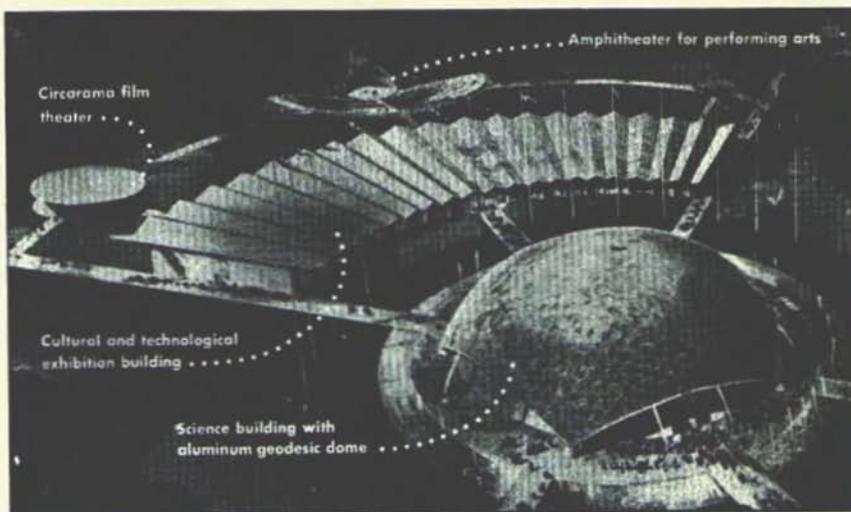
Cleveland, Ohio, January 16, 1959

No. 2

NASA EXHIBIT READIED FOR MOSCOW

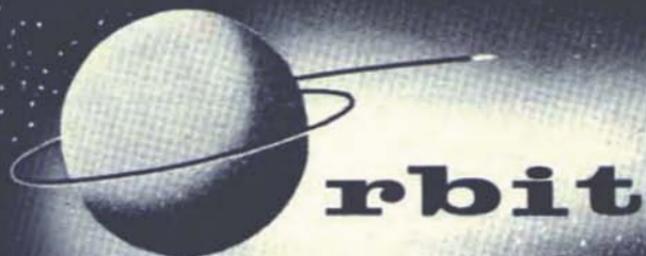
NASA projects will be shown in the American National Exhibition at Moscow, opening July 4, 1959, for a six-week run. Jim Modarelli, Chief of Technical Publications Division at Lewis is handling details of the NASA display.

Focal point of the NASA layout will be a huge world globe encircled by plastic rods showing the paths of various satellites and space probes, both Russian and U.S. surrounding the globe will be examples of re-entry research, experimental aircraft and flying platforms. The exhibition is part of an exchange agreement worked out with Russia last year. About the same time the Russians will hold an exhibit in New York Coliseum.



Sketch of buildings for the scientific-cultural American exhibit. NASA's will be one of several exhibits housed in the geodesic dome in the foreground.

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MODARELLI TRANSFERS TO HEADQUARTERS

James J. Modarelli leaves Lewis and his work as Chief of Technical Publications to assume the responsibilities of Director of Exhibits for the NASA.

A farewell get-together was held in the Auditorium for Jim and his wife Lois on Sunday afternoon, November 8. Dr. Sharp and Calvin Weiss made the presentation of gifts from his friends, including the pair of doorknob bookends Jim is holding in the photo.

The Modarellis have not as yet moved to Washington but expect to in the immediate future.





Vol. XVII

Cleveland, Ohio, July 31, 1959

No. 16

THIS IS NASA INSIGNIA



On July 15, 1959, Dr. Glennan prescribed the NASA official insignia in the NASA Management Manual.

The circular insignia has a sky background of dark blue with the NASA letters in white. Within and extending slightly beyond the circle is an aerodynamic wing configuration in red. An elliptical flight path and stars in the background in white completes the design.

Instrumental in formulating the final design, as well as furnishing the final drawings were Lewis illustrators Richard Schulke, Louise Fergus, John Hopkins, and Technical Publications Division Chief James J. Modarelli.

The insignia will be used for lapel emblems, on NASA equipment and facilities, publications, charts, and the like.

It may be reproduced and displayed only on official articles. As soon as lapel service award pins are available, the Lewis recipients will be notified.

The official NASA seal differs from the insignia in design and use. Unlike the insignia, its design requires the approval of President Eisenhower. The seal design is in the approval stage and will be announced in the near future.



Vol. XVIII

Cleveland, Ohio, January 8, 1960

No. 1

OFFICIAL NASA SEAL APPROVED

President Eisenhower has officially approved and established a seal for the NASA according to Executive Order 10849 as published in a recent issue of the Federal Register.

The seal shows a large yellow sphere with the wings of a red flight symbol enveloping it, casting a gray-blue shadow on the sphere. Partially encircling the large sphere is a horizontal white orbit. In the distance is a smaller light blue sphere; all is on a background of blue sky strewn with white stars. Circumscribing this disc is a white band edged in gold with "National Aeronautics and Space Administration U.S.A." in red letters.

James J. Modarelli, former chief of Technical Publications of Lewis, recently transferred to Headquarters as Director of Exhibits, designed the seal.





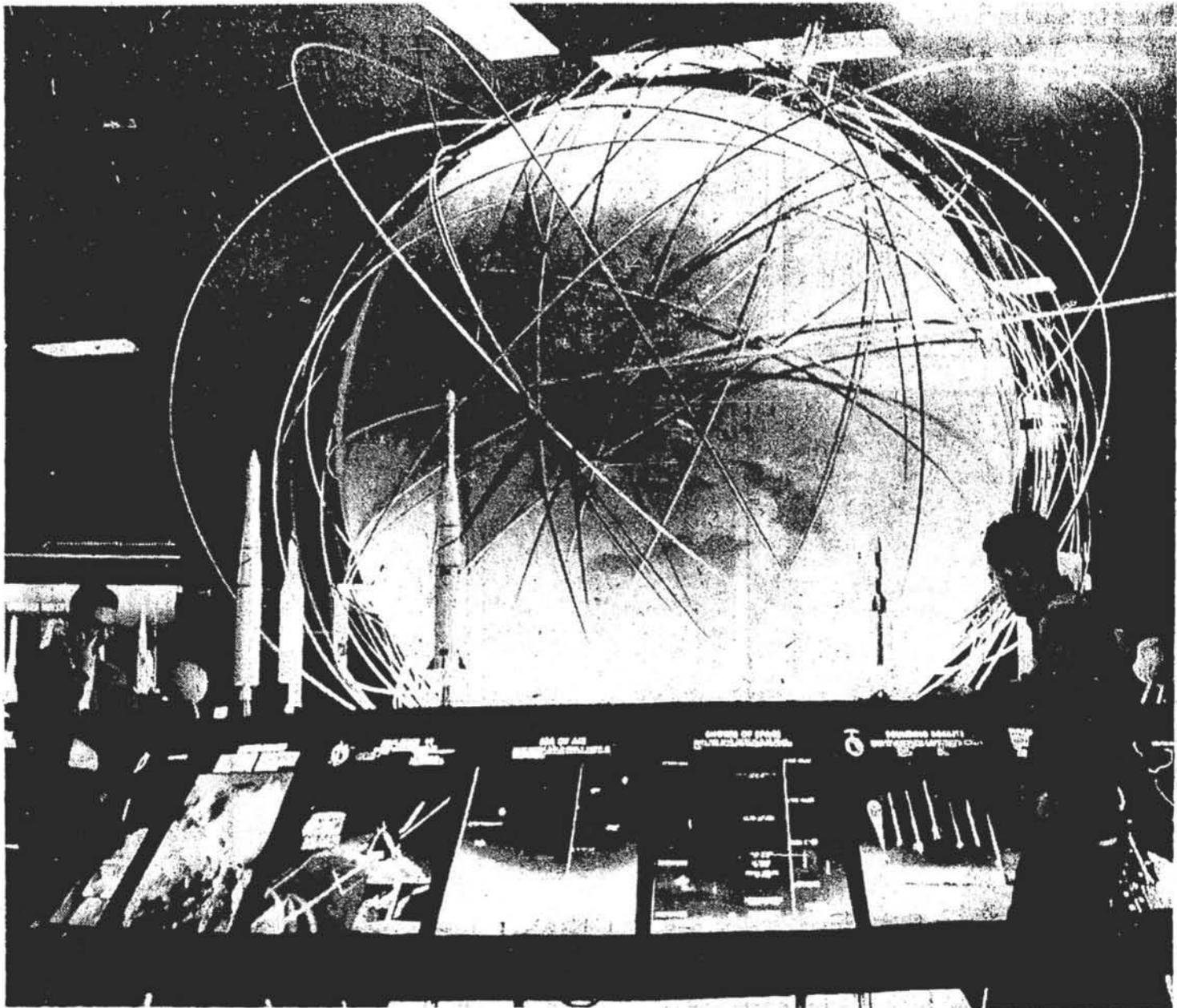
APPOINTMENTS AT LEWIS

Calvin W. Weiss has been appointed assistant public information officer director of the Lewis Research Center.

In his new post, Mr. Weiss will assist Harry J. McDevitt, information director, in general public relations responsibilities at Lewis and Plum Brook.

Mr. Weiss is a native of Cleveland. He attended Collinwood High School and Baldwin-Wallace College where he received a B.S. degree in 1947. He joined the staff of the Lewis Research Center the same year and has fulfilled a number of responsibilities, including division chief. During World War II he served aboard ship as a naval officer in the Pacific, returning to active duty overseas during the Korean War. Mr. Weiss resides in Parma Heights with his wife and two daughters.

James J. Modarelli has returned to Lewis and will succeed Mr. Weiss as Chief, Technical Publications Division. Mr. Modarelli spent nearly two years at NASA Headquarters as Exhibits Chief. During this service he set up the very excellent exhibits program now underway on a national and international basis.



This eight-foot globe shows how crowded outer space is getting. The spaghetti-like lines show paths of space vehicles now in orbit. The model cost \$12,000.

Plain Dealer Photos (Marvin M. Greene)

14 FULL-SCALE MODELS—

Space Vehicles, In and Out of Orbit, Displayed at Case

By TED PRINCOTTO

The most complete exhibition of space vehicles ever assembled under one roof, not counting the sky, went on public display here yesterday in Tomlinson Hall of Case Institute of Technology.

The exhibit is free; that is, there is no admission charge. Looked at differently, it cost Americans at least several billion dollars.

On display are 14 full-scale models of America's orbiting space satellites, the originals of which cost fortunes. Even the models do not

come cheaply. They are expertly designed and it would take an expert to discover they were forgeries that would fall to the floor, if not supported by display pedestals.

To put together the exhibition, incidentally one that not even the Russians could duplicate, cost more than \$50,000. The National Aeronautics and Space Administration (NASA) owns it.

At the official opening, a press preview, a pair of high-priced guides showed newsmen around and obligingly answered questions. They were Dr. T. Keith Glennan, president of Case and until a few months ago the administrator of the NASA, and Eugene J. Manganiello, acting director of NASA's Lewis Research Center here.

Dr. Glennan said it was hoped that 30,000 to 50,000 persons would view the exhibition, which will be here through April 21.

"We've already made arrangements for scores of busloads of school children to visit it," he said.

Most impressive exhibit, possibly because it is most readily understood, is an eight-foot globe in the foyer of the hall. It rotates slowly under a maze of slim circular orbiting paths of satellites now in orbit. It makes outer space look crowded already.

On hand to explain it and the exhibit in general was James Modarelli, chief of technical publications at Lewis Research Center. He had worked in Washington on preparation of the exhibit.

"What we tried to do," he said, "was to put space explorations into a context that people could easily see. People read and hear of the various satellites and their names but few people can keep up with them all. We have put all of space explorations into some practical order.

"As you can see we end up with what approximates a huge ball of yarn. We show 46 satellites orbiting around the earth. We don't yet show Explorer IX and X. They're being fabricated in a Washington shop right now.

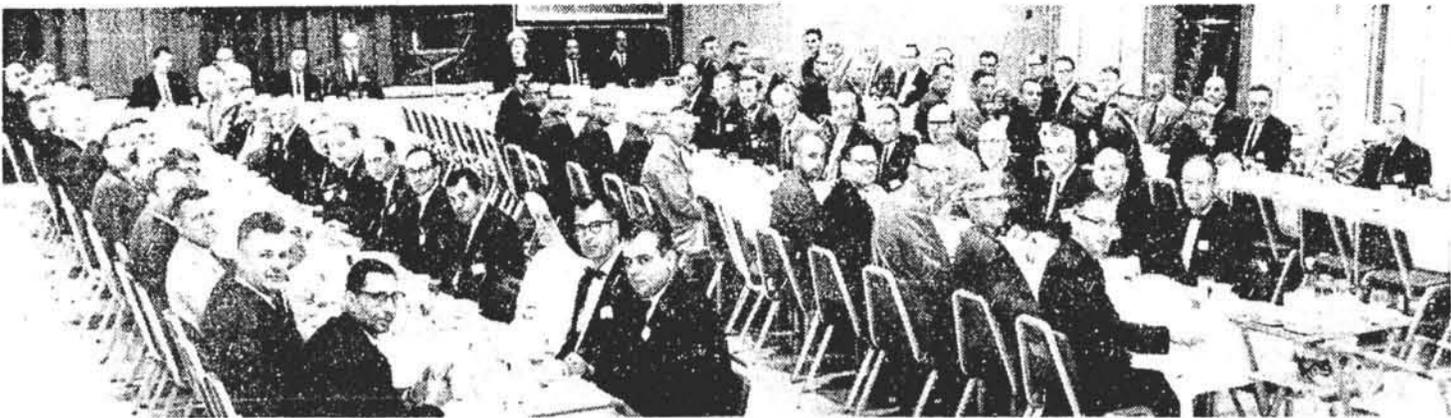
"The 'orbits' were fabricated out of three-eighths-inch aluminum tubing. We used different colors and shades of colors to indicate satellites. For the Russians' we used shades of brown.

Frankly, we've almost run out of clearly distinguishable colors."

The NASA has the display booked for showing through May. Millions are expected to view it before it stops orbiting around the country.

The showing here is the first in Ohio. It has been seen previously in Montreal, the Chicago Museum of Science and Industry and in the rotunda of the old House Office Building in Washington.

The exhibit hours, not completely uniform, follow: 5:30 to 10 p.m. through Friday; 9 a.m. to 9 p.m., Saturday; 1 p.m. to 3 p.m. and 7 p.m. to 9 p.m. Sunday. It will be closed Monday, April 17, through Wednesday, April 19. It will be open from 5:30 to 10 p.m., April 20 and April 21.



Educators from northern Ohio attended a special luncheon here yesterday to learn about the Space Science Fair and Space Sci-

NASA-PD VENTURE—

Space Fair Report Is Given Educators

More than 70 educators from northern Ohio received a special preview report yesterday on the Space Science Fair and the Space Science Institute being sponsored this fall by the National Aeronautics and Space Administration and The Plain Dealer.

The space show, first of its kind in the United States, will be held in Public Hall from Friday, Nov. 23, through Sunday, Dec. 2, from 10 a.m. to 10 p.m. daily.

The event will be free to the public, with tickets available through The Plain Dealer.

Irving Pinkel, chief of the fluid systems components division of NASA's Lewis Research Center here, and Mrs. Margaret Byrne, education service director of The Plain Dealer, explained the purposes of the show at a luncheon meeting at the Cleveland Engineering & Scientific Center, 3100 Chester Avenue N.E.

Pinkel told the educators NASA had been so busy for the last four years that the public had been forgotten. The space fair and institute, he said, is "one of the things being done to meet NASA's obligation to the public."

The well-known physicist described the program features being planned for the space fair and institute.

AMONG THE FEATURES will be the actual "hardware" of space vehicles and



James J. Modarelli Irving Pinkel Margaret Byrne Wright Bryan

Modarelli and Pinkel, NASA officials here, discuss the Space Science Fair and Space Science Institute with Mrs. Byrne, education service director of The Plain Dealer, and Bryan, editor of The Plain Dealer.

Educators Hear Space Fair Plan

★ **From First Page**

tellites, with models being displayed where the equipment itself is not available. Each section of the show will have an "imposing theme piece," Pinkel said, adding that efforts were being made to get a Thor-Able booster into the hall and a star communications satellite, among others.

PINKEL SAID ONE of the most important features of the show would be the Space Science Institute which would be held in classrooms set up on the exhibition floor under the main arena of Public Hall.

Two-hour lectures will be offered in the classrooms for junior and senior high school pupils, to be followed by two-hour tours of exhibits in the main arena.

A number of evening lectures, probably four, are being planned for adults, he said.

MRS. BYRNE TOLD the educators the show was being oriented toward education. She said it would give children a "forward view" and would inform them of new professions and job opportunities which are part of the space age.

Children not attending the show with school groups will be welcome at any time when accompanied by adults, Mrs. Byrne pointed out.

WRIGHT BRYAN, editor of The Plain Dealer, who welcomed the educators, said that the show would be "larger and better" than the space exhibit at the World's Fair in Seattle.

Bryan said it would be the first place in the United States where such presentation has been made.

THOSE ATTENDING the space show luncheon included:

- Melvin Bixler, Stark County Board of Education; Dr. Clyde Inaman, elementary supervisor, Mahoning County; Alured C. Ramm, supervisor, Portage County; Gayne Whyte and Robert Bell, condan, supervisors, Lorain County; George Linn, Jr., coordinator for gifted, Huron County; Ralph Factor, high school supervisor, Erie County; F. B. Louys, superintendent, Trumbull County; Walter Jones, high school supervisor, Trumbull County; K. G. Dick, Cuyahoga County; Lorin H. Jiggs, superintendent, Hubbard; Edward Masonbink, superintendent, Mentor; R. A. McCormick, principal, Wellington; H. Robertert, principal, Windham; Kenneth Bradford, State Department of Education; Otis House, science department head, Andrews School; Richard Ward Day, administrator, Hawken School; Dr. Gene S. Hall, Laurel School; Harold Cruikshank, headmaster, University School; Gene Elliot, North Royalton; K. E. Lower, superintendent, North Olmsted; Loren Early, executive head, Olmsted Falls; Paul Briggs, superintendent, Parma; Russell R. Fair, executive head, Richmond Heights; James A. Harper, principal, Richmond Heights; Dr. Thomas F. Banaahan, elementary director, Shaker Heights; Richard N. Boers, science department head, Solon; Alan Shankland, superintendent, South Euclid-Lyndhurst; Harold E. Drake, superintendent, Strongsville; Ernest Kozma, assistant superintendent, Strongsville; Harold Kuhn, superintendent, Warrensville Heights; Anthony Columbaro, Westlake; Paul F. Smith, superintendent, Salem; Wallace C. Glenwright, superintendent, Sandusky; Charles Kreider, science department head, Wadsworth; Wiley S. Garrett, assistant superintendent, Warren; Milan S. Tetarik, Willoughby; Robert Shreve, Youngstown; William Dellard, Bedford; Clarence Rice, superintendent, Brooklyn; Paul Gallagher, superintendent, Berea; M. Neil Wheatcraft, Chargin Falls; Alva R. Dittick and Elmer Richie, Cleveland; Ralph Adams, principal, Cuyahoga Heights; Dr. Theos I. Anderson, superintendent, Cleveland Heights; Robert L. Holloway, secondary education director, Euclid; Lewis F. Mayer, superintendent, Fairview Park; Otis H. Schaaf, superintendent, Garfield Heights; Paul E. Spayde, assistant superintendent, Lakewood; Sister George Mary, secondary education superintendent, Catholic schools; Dr. W. A. William, assistant superintendent, Alliance; James McDowell, science department head, Ashland; Harry Bauschlinger, Barberton; Robert Regula, principal, Bellevue; Glenn W. Zeller, superintendent, Conneaut; John Moore, Cuyahoga Falls; George Miraben, assistant superintendent, Elyria; Dr. Gebhard, superintendent, Geneva; Dr. Clyde Scott, director of instruction, Lorain; E. R. Malone, superintendent, North Canton; James N. Ross, principal, Norwalk; Robert W. Duncan, superintendent, Oberlin; Howard S. Netzly, superintendent, Orrville; Russel Hobard, superintendent, Painesville; Lillard E. Law, superintendent, Alliance; Ralph D. Sollars, Niles; John W. Fedor, curriculum director, Campbell; George Cebula, physics department head, Campbell; James Loughridge, Medina; Kenneth Zuercher and Floyd Maurer, science teachers, Wooster; John R. Lea, superintendent, Wayne County.

NASA Chiefs Believe We'll Win Moon Race

WASHINGTON (AP)—The chief of the civilian space program said yesterday that despite Russia's feat of orbiting space twins he thought the United States would make the first landing on the moon.

James E. Webb, administrator of the National Aeronautics and Space Administration, made the statement at a news conference.

The same confidence was expressed by Dr. Hugh L. Dryden, deputy administrator of NASA, who indicated he believed the United States would achieve before Russia the booster power necessary to send men to the moon and bring them back.

However, Dryden and other NASA officials said Russia might make a manned trip around the moon without landing before the United States could do so.

Webb said he believed that Americans would reach the moon before the end of the present decade, the goal set in President Kennedy's call for a stepped-up lunar program about a year ago.

Ike Doesn't Think Reds Have Lead

LONDON (AP)—Dwight D. Eisenhower said yesterday he did not agree with those who claim the Russians have a space lead over the United States.

The former president told a news conference the Russians had been indulging in "all kinds of spectaculars, whereas we have been putting all kinds of satellites in the air."

He predicted the American program would "lead to the moon and it will come about as a matter of course."

"I do not agree that they (the Russians) have a space little tired of that word gap."

Eisenhower's news conference, covering a wide range of international issues, was beamed to the United States by the American communications satellite Telstar.

Designer of Big Space Fair Hankers for More Space

When J. J. Modarelli first started planning the 30,000 square feet of the Space Science Fair, back in mid-July, he wanted aisles at least 15 feet wide.

The aisles are 12 feet wide, in most places in Public Hall, and even less in other places.

"And I still wish I had another 10,000 square feet," Modarelli says.

GAS CHIEF OF the technical information division for the Lewis Research Center of the National Aeronautics and Space Administration, Modarelli was more accustomed to supervising his 110 people in five branches of work—editorial, photographic, graphic, technical library and reproduction.

Then came the Space Science Fair, of which Modarelli is properly described as exhibit design co-ordinator.

MODARELLI, who ran his own industrial design studio in Berea before joining NASA in 1949, had never set up such a large display before this one. His biggest previously was 5,000 square feet in Montreal.

"We've had to leave out some extremely important things," said Modarelli. "For instance, we could not arrange a whole display on instrumentation, showing how space instruments are mini-



J. J. Modarelli and a leftover exhibit from the Space Science Fair.

Plain Dealer Photo (Nobert J. Yassany)

turized. We had to let it go with just giving a few indications of instruments in the other exhibits."

Modarelli, who rented, begged and borrowed most of the displays and used a few of his own designs, admitted there had been arguments along the line between scientist and showman.

"We've had to simplify," he lamented.

"WE STARTED OUT with a main story outline, and we still have just an outline. In the center exhibits, we give a broad, general picture. On the sides, we go into more detail. If only we had another row, another whole area, we

could really get down to the facts." casual visitor could read the big print and get a general idea. The more serious visitor could read the small type and learn more.

Among the countless complications of his job was ceiling space in addition to square feet of floor. NASA had hoped to bring in a Thor-Atlas missile to show a launching vehicle, but would have been forced to leave off the top stage.

could really get down to the facts."

Modarelli said all the explanatory signs for the fair were carefully designed like newspaper headlines. The

Truck Plucked

A refrigerator truck with more than 2,000 frozen chickens was stolen from outside the Sav-Mor Supermarket, 10310 St. Clair Avenue N.E., yesterday. The truck, owned by the American Poultry Co., 6408 Broadway S.E., was found by police a few hours later at the corner of 106th Street and St. Clair Avenue N.E., plucked clean of its cargo.

NOVEMBER 11, 1962

Space Fair Work Sped by Backstage Team

A team of scientists and engineers at the Lewis Research Center is working almost around the clock in preparation for the big Space Science Fair at Public Hall from Nov. 23 to Dec. 2.

The impresario for the dazzling space show is Irving Pinkel, veteran NASA physicist who is one of the nation's leading air safety experts.

Working closely with Pinkel is James J. Modarelli, chief of technical information at Lewis, and a staff of nearly 40 experts.

Pinkel and some of his colleagues have been flying coast to coast to NASA centers and to space-industry plants to line up the exciting array of spacecraft, satellites and other exhibits which will far outshine the space show which was a feature attraction this year at the Seattle World's Fair.

MANY DISPLAYS are so sensitive that they will be airlifted here next week just before the Space Science Fair opens, Pinkel said.

Displays will be set up in 15 areas of Public Hall, with three feature exhibits in each area.

Some 45 top aides from Lewis and other NASA centers will be in the display area to lecture about the exhibits and answer questions.

THE SPACE Science Fair, first of its kind, is being sponsored by the National Aeronautics and Space Administration, and The Plain Dealer.

The exposition will be open from 10 a.m. to 10 p.m. daily. Admission will be free.

There will be a space science institute and a general information workshop for student groups from Monday

Continued on Page 7, Col. 1

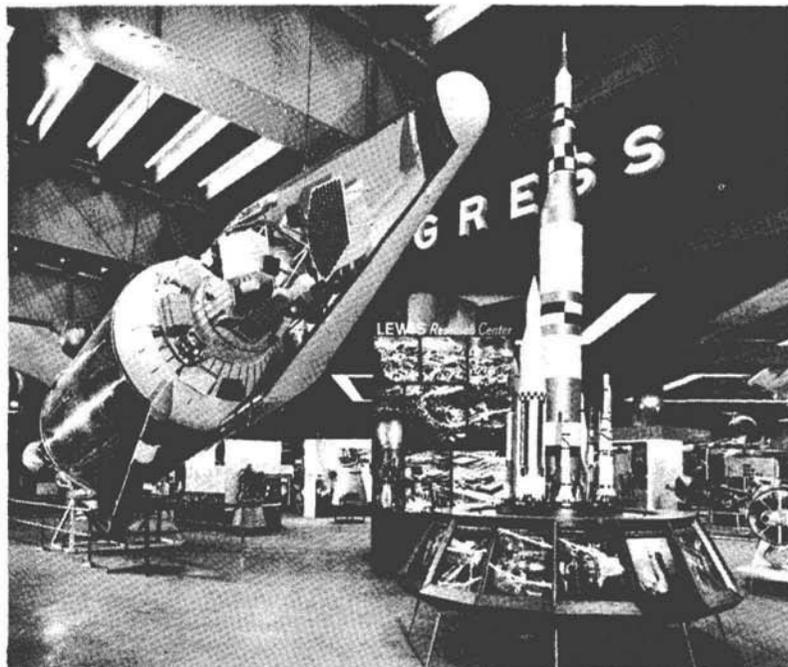
LEWIS NEWS

The Lewis Research Center
National Aeronautics and Space Administration
Cleveland, Ohio

Vol. 1, No. 15

Sept. 11, 1964

CENTAUR-SURVEYOR combination dominates Lewis' "Parade of Progress" display.
Photo by Paul Riedel.



Unusual Is The Word For Surveyor Model

A team of Lewis workers came up with an unusual solution to the problem of finding a Surveyor model for use on the full-scale Centaur at the Parade of Progress. They built one.

James J. Modarelli, who with Dick Schulke coordinated the display, said NASA spacecraft contractors could not fill the exhibit request because all existing Surveyor engineering models were in use.

There were two ways out. Use a painting of the Surveyor inside the Centaur nose fairing -- or build a model. A meeting between Modarelli, Schulke, John Auerbach, George Mahnke, and Bob Fenner resulted in the decision that a model probably could be built as quickly and inexpensively as a painting could be produced by illustrators.

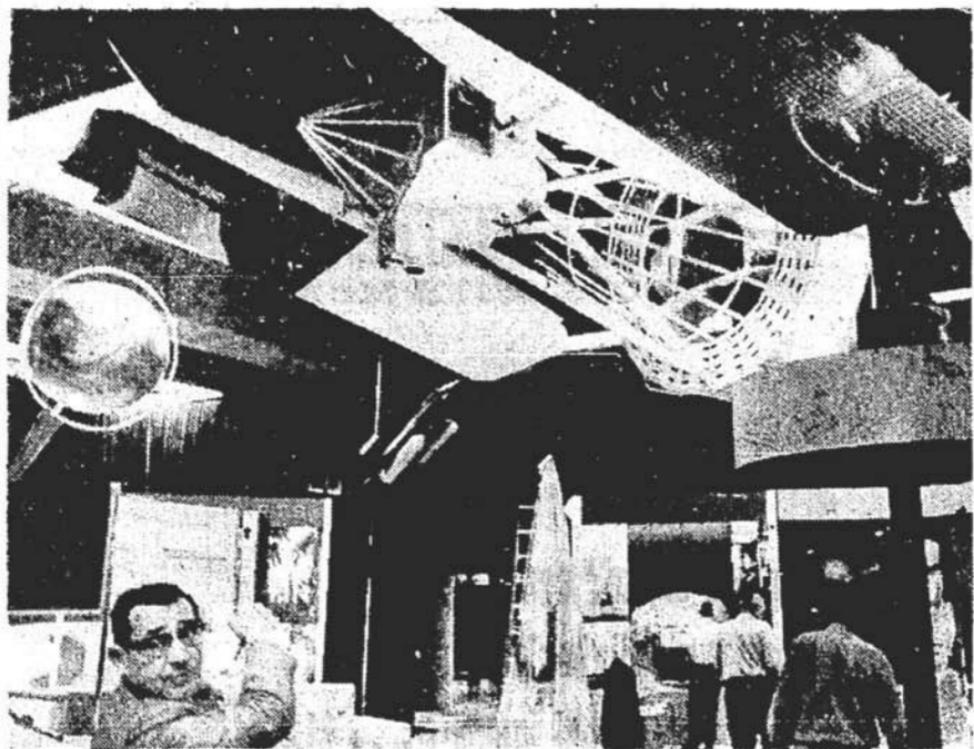
A one-eighth scale-model Surveyor, borrowed from Headquarters, was used for copying details. Modarelli and Schulke spent a Sunday making numerous quick sketches of spacecraft parts plus a full-scale welding pattern.

Auerbach's crew tack-welded a simple frame from aluminum tubing. The Carpenter Shop came up with some unique ideas for quick fabrication of parts using wood, masonite, and styrofoam.

Cylinders were made at home from coffee cans, tobacco cans, and plastic bleach bottles. Used metal lampshades were donated as nozzles for retrorockets. Three-inch-diameter paper-mache hemispheres became the main retrorocket motor.

"An enthusiastic group worked together, picked up odds and ends, and came up with a very effective mock-up," Modarelli said.

The set up of the Centaur stage was supervised by Joe Van Gilder, with the technical assistance of Del Drier. Andy Szuhai and his crew came up with their share of "yankee ingenuity" in preparation of the exhibit.



James Modarelli, of the NASA staff points to a cluster of application satellites being readied for display by the Lewis Research Center. This particular group will include the Echo, Relay, Simeon and Nimbus. NASA is the largest exhibitor.

Plain Dealer Photo (Richard J. Misch)

Battle for Convention Hall Here Sputtered and Flared Since 1956

The Convention Center opening today with a gala Parade of Progress, is much more than Cleveland's answer to the competition of other convention cities.

It also stands as a monument to Cleveland's ability to get things done well—but done the hard way.

It became a reality only after years of agonizing civic soul-searching.

The first call for expanded Public Hall facilities was made March 9, 1956, at a meeting of the board of directors of the Cleveland Convention and Visitors Bureau.

Edward C. Brennan, the bureau's executive vice president, told of plans for new convention halls in such competing cities as Detroit, Chicago and New York.

THE PROPOSAL produced headlines, but no action. Anthony J. Celebrezze, then mayor of Cleveland, contended any plan altering the existing Mall would be poorly received by the public.

The convention bureau kept beating the drums for expansion of facilities. In 1957, city planners and architect Richard Outcalt developed the Gateway Center Plan calling for a \$15-million exhibit hall north of the Lakeside hall, built on stilts over the railroad right-of-way and extending to E. 9th Street.

The plan, supported by the Celebrezze administration, called for \$15-million bond issue on the November ballot. It was defeated by a slim margin. Placed on the ballot again in 1958, it was again turned down by the voters although it received a majority vote of 52%. It needed 55% for approval.

AN ANGRY Mayor Celebrezze challenged the bureau to come up with its own plan and sell it to the voters.

"If you want convention facilities, let's get serious," he is reported to have told the bureau. "We have tried twice, now you take the leadership." Celebrezze closed the meet-

ing by calling Cleveland "the greatest debating and talking town in the country."

THE CONVENTION bureau took up the challenge. Dan B. Wiles, bureau president that year, named a committee headed by Lee C. Howley, Illuminating Co. executive, to develop a new plan.

On May 10, 1960, the committee proposed to City Hall a new concept of auditorium expansion. It called for a \$10-million exhibit hall to be built under the Mall west of the existing Public Hall. The committee lined up support for its plan. Voters approved it on the Nov. 8 ballot.

The Mall Plaza, crowning touch to the new exhibit center, was made possible by a \$2-million gift from the Leonard C. Hanna Fund.

"The Convention Center, as it stands today, will enable Cleveland to meet competition of all other convention cities," says Brennan.

GREATER CLEVELAND

Kobak Fills Middleburg Council Post

Middleburg Heights finally got a council president last night when Mayor Stephen Tymcio named councilman-at-large John J. Kobak to the post.

The mayor acted because 30 days had elapsed from the start of the term with council not naming a successor to William C. Starn, who died last fall after the November elections.

At the council meeting a month ago, the members split 3-3 on every vote for a new president. One group backed Kobak and the other group backed James A. Carr.

AFTER KOBAK'S appointment was announced, councilmen voted unanimously to have James A. Modarelli fill Kobak's council-at-large post. Modarelli, NASA chief technical information director, lives at 7484 Brookside Parkway. He was defeated last fall for the Ward 1 council post, in his first political contest.

Council also learned last night the federal government had granted the city an extension to May 12 of the original Jan. 12 deadline for filing its application for federal funds on the city's sewers and waste treatment plant project.

LEWIS NEWS *LA*

Lewis Research Center
National Aeronautics and Space Administration
Cleveland, Ohio

W
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March 4, 1966

1966 Social Activities Committee Members Named

The party banners of LeSAC are now being carried by a new group of standard bearers.

A 1966 Lewis Social Activities Committee has been appointed to plan Center social events and to carry on the tradition of "LeSAC presents the unusual". It is the third group to be named since LeSAC was created in September, 1963.

The new committee -- which has been on duty since late last year -- officially retired the old with huzzahs and harpoons at a recognition dinner held February 18 at the Guerin House.

Dr. Abe Silverstein presented the 1965 LeSAC members with mementos of their year of service.

Heading the 1966 LeSAC team is Jim Modarelli, chief of the Technical Information Division. He succeeds Len Obery, head of the Office of Development Plans and Programs.

Taking over the job of deputy chairman is Tom Shillito. John Klann held that position last year.

The new treasurer is Tony Hess, who replaces Evelyn Anagnostou. Mary Ruth Osgood will be the hostess, a job held by Betty Soppitt in 1965.

Members of the 1966 team and the committees they will be serving on are (chairmen listed first):

FOOD AND BEVERAGES -- Dave Bowditch, Robert Titran, William Tabata, Kal Abdalla and Nick Samanich.

DECORATIONS -- Dick Schulke, Don Kovach, Rose Dlubac, Walter Klein and Christine Grywalski.

SITES PREPARATION -- Carl Sieber, Larry Plews, William Cleber, John Cruickshank Jr., Tad Guzik, Thomas Seitz, John Dalgleish, Ben Sharkey and Al Ross.

TICKETS -- John Kobak, Eileen Staab, Rose Hudak and Evelyn



Anagnostou.

BANDS AND BALLROOMS -- Bruce Chiccine.

SPORTS -- Henry Brandhorst Jr. and John Ewashinka.

PUBLICITY -- John Clark.

EMCEE -- Bill Tomazic.

Committee members in 1965 were:

-Jim Ward, Bob Cubbison, Don Boldman, June Winchester, Tom Moffitt; Food and Beverages.

-Bill Stevans, Sandy Hines and Dick Schulke; Decorations.

-Andy Szuhai, Bob Billy, Pierre Laisure, Roy Maurer and Jack Barendt; Sites Preparation.

-John Kobak, Connie Conley, Alma Halloran and Dorothy Davidson; Tickets.

Bill Kerslake, handled sports; Al Wisniewski was the emcee; Ken Kaufman was the Bands and Ballroom chairman; Henry Jacques took care of publicity.

The first LeSAC group was founded in mid-September, 1963 to replace the former NicNASA and the Mixer Committee.

Robert R. Miller was the first chairman and Harry Bloomer was the first Deputy Chairman.

Other members were Americo Forestieri, Lou Corpas, Dave Pofferl, Phil Romano, Ev Young, Pat O'Donnell, Dick Jacobs, Carl Weigel, Sandy Hines, Bill Jones, Frank Dunn, Jon Sillasen, George Tunder, Joe Sivo, Jack Lindsey, Charlotte Slifko.

Photos on Page 5, by Al Lukas.

Names in the News

Jim Modarelli, chief, Technical Information Division, and his family are looking forward to late August and the arrival of **Monika Shubert** of Bavaria. Coming here through the American Field Service Program, Monika, 18, will take senior year studies at **Midpark High School**. **Susan Modarelli**, 17, will be a junior there this fall.

John E. Pleva, Test Installations Division, and brothers wish to extend their appreciation to Lewis friends for their kind expressions of sympathy and flowers at the time of the death of their mother.

John Greissing, **Tony Hoffman**, **Marge Jereb**, and **Ralph Slavik**, members of the Nasairs Flying Club at Lewis, took a big step in their flying careers as they all soloed recently. **Walter Schlegelmilch**, who soloed this Spring, has received his private pilot's license from the FAA. He is now working for a commercial pilot's license.

Lewis' Chief Patent Counsel, **Norman T. Musial**, has been elected president of the North Olmsted Junior Chamber of Commerce. Musial is very enthusiastic about the Jaycees, comprised of men between the ages of 21 and 35, who seek to gain leadership experience through community service. He also has been active in Boy Scout fund raising and is a member of the North Olmsted Planning Commission. Musial invites Lewis employees who are North Olmsted residents to call him, PAX 2286, if they are interested in this young (21-35) men's civic service organization.

Names in the News

Congratulations to **Jim Modarelli**, chief of Technical Information, who was recently named Middleburg Heights safety director.



Brucchieri

John Brucchieri was recently appointed Head of the Price Analysis Office in the Procurement Division. He joined Lewis in 1962 after working at the Cleveland Ordnance Plant for six years.

Theresa Horvath, Educational Services Office and her mother, **Gizella**, Communications Section, are presently enjoying the beautiful scenery of Hawaii. Their 15-day tour covers four of the islands.

Oops . . . an oversight: **Rathuel McCollum**, Nuclear Systems Division, was among Center employees who received the Juris Doctor degree in Cleveland Marshall Law School ceremonies last month. Our congratulations to him too.

On April 19 **James E. Burnett**, chief of Industrial Programs, appeared on a Technology Utilization Panel at the University of Akron.

April 25 found **Paul Foster** speaking on new technology at the annual recognition dinner for the Southwest District Boy Scouts held here at Lewis. Also that day **Harrison Allen, Jr.**, presented a paper on "Materials" at a Technology Utilization Conference in Seattle, Washington.

The Lewis Speaker's Bureau announces the following employees are scheduled to give talks during the next two weeks:

On April 27, **Cal Weiss** will speak at the Spring Conference of the Ohio Council for Elementary School Science at University of Akron.

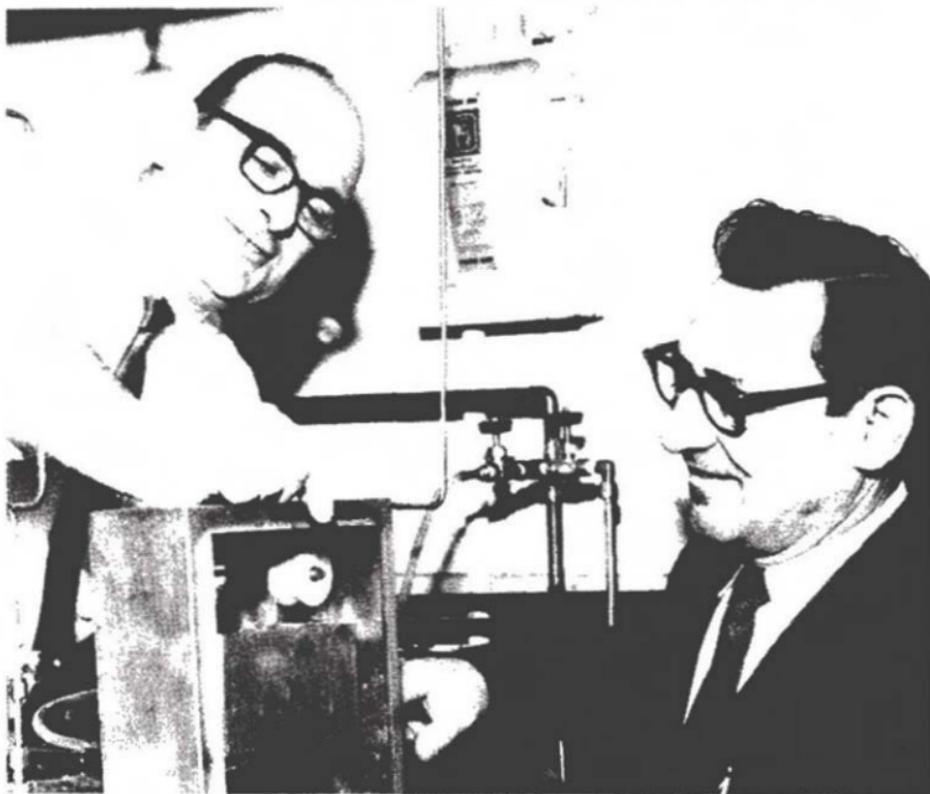
The last day of April will find **Ed Richley** speaking at West Shore Science Club, Rocky River High School.

On May 3, **Walter T. Olson**, assistant director, will be in Minneapolis, Minnesota, to speak to the Youth Science Congress at the Holiday Inn Central. **Darl Bien** will address the Men's Social Club at the Episcopal Church of the Advent in North Olmsted. Also that day **Marshall Dietrich** will speak at the Lake County YMCA Pot Luck Supper in Painesville.

Bob Summers will speak May 7 at the Noon Luncheon Group of the Cleveland Engineering Society.

Two days later **Lou Revynak** will address the Fairview Park Kiwanis Club.

R. G. Sheehan, Test Installations Div., is looking for the man who witnessed his automobile accident on Underpass Rd., near DEB. He was driving a 1966 Ford station wagon when the collision occurred at about 7:40 a.m. on March 27. Anyone who has information regarding the accident should contact Sheehan on PAX 6202.



Cliff Brooks, motion picture cameraman, explains to James Modarelli, Chief, Management Services, the wash assembly used in the processing of motion picture film. (Paul Riedel photo)

Lewis News

Vol. 8 No. 20

September 24, 1971

Combined Federal Campaign runs here from October 12-26

From October 12 to October 26 Lewis employees will have an opportunity to contribute to the Combined Federal Campaign (CFC).

The CFC is the campaign by Federal agencies to raise funds for health and social service agencies now funded through the newly-formed United Torch Drive, and to raise funds for 10 national health agencies and four international service agencies.

Under the United Torch concept, 143 health and social service agencies and 10 Red Cross programs former-

ly funded through United Appeal, and 10 health research and education agencies, formerly funded through Health Fund and the Cleveland Plan campaigns, will be joined together for the first time in an inclusive campaign in Greater Cleveland.

One difference between this year's United Torch drive and United Appeal drives in the past is that United Torch will attempt to raise enough funds to satisfy the certified needs of the participating agencies

rather than concentrate on surpassing last year's goal.

James J. Modarelli, Chief of the Management Services Division, has been named campaign manager of this year's CFC drive at Lewis. Helping him will be John M. Powell, assistant campaign manager, and John W. Boggs, treasurer.

Lewis employees as well as all employees in the Greater Cleveland area will be asked to give a fair share to this very worthwhile campaign. Last year, Lewis employees were asked to give an average fair share of \$43.21, but they actually contributed an average gift of \$47.00 to exceed their \$158,000 goal. "The \$47.00 average gift was the best in the Greater Cleveland area. I am sure the staff will respond just as unselfishly again," Modarelli said.

While some employees are helping to make the Lewis drive a success, others, like Dr. Walter T. Olson, Director of Technology and Public Affairs, are lending their services to the overall campaign. Dr. Olson has been named chairman of the Civic and Governmental Subdivision of United Torch. As chairman he is responsible for coordinating the drive involving employees in Federal, state, county, and city governments, social agencies, and hospitals.



From left, John W. Boggs, Combined Federal Campaign Manager James J. Modarelli, and John M. Powell map their strategy for the 1971 Combined Federal Campaign. (Paul Riedel photo)

NASA

Lewis Research Center
Cleveland, Ohio

August 20, 1976



Staffer designs seal

This official seal for the City of Middleburg Heights, Ohio is the brainchild of James J. Modarelli, Chief Management Services Division. Here is Modarelli's description of the seal. "Upon the circular band are the words 'City of Middleburg Heights, State of Ohio, U.S.A.' Within the circle are three main elements. The first is a portion of the 50-star American flag interlaced with the roots of three onion plants - Middleburg Heights' early historic crop. These plants represent the city's roots in the nation. The second element comprises a variety of subjects suggesting a heterogeneous city. The subjects are a farm for agriculture, a family and home for a residential community, a multi-story structure for education and commerce, a smokestack for industry, an aircraft for transportation, a group of birds for nature and the metropolitan park system within the city." The contest was sponsored by the Middleburg Heights Jaycees. Modarelli, who has served the city in various capacities, including Safety Director, contributed his monetary award for the seal to the city. The seal will be available in three basic renditions - black and white for reproduction on letterheads, etc; full color for adapting to city flags, police cruisers, etc; and in bas-relief possibly for a diameter plaque. This will require work of a sculptor.



Gene Webb cartoons

Center finishes second in 4-mile, NASA-wide race

In addition to being the leading Center in several significant research areas, Lewis also held its own against eight NASA Centers and Headquarters in a recent NASA-wide jogging competition.

The Center tied for second place with Ames for overall points in the four-mile event and slipped to fourth place in the two-mile event.

Forty-six men and seven women competed for Lewis in the two-mile race while 29 Lewis men and four women challenged and finished the grueling four mile race.

David Rolandelli placed first in his age group in the two-mile event with a running time of nine minutes and 49 seconds. He competed against 43 runners from Lewis and the other Centers.

Bonnie McBride outdistanced all female runners in her category as she finished first in the four-mile race with a running time of 34 minutes and 46 seconds, and second in the two-mile race. Karen Povinelli finished second in her category in the four mile event.

James Modarelli won a first for Lewis in his age category in the two-mile event. John Kring also placed first in his category, finishing ahead of 24 others who competed in the four mile race. Kring's running time was 23 minutes and 50 seconds. Kring also emerged fourth in his age category in the two-mile event.

Points were awarded for the first ten finishers. Other Lewis employees who were awarded points in their respective categories in the two mile race

were Jim Janos, seventh place; Brian Bowles 10th place; Wayne Bartlett, ninth place; Dean Miller, 10th place; Brian Blue, sixth place; and Lonnie Reid, ninth place.

Lewis women finishing in the top ten positions in the two mile race were Karen Povinelli, fourth place and Kathy Povinelli, ninth place. Kathy also finished ninth in the four mile event.

Lewis men finishers in the top ten in their respective category in the four-mile event were Brian Bowles, fifth place; Michael Bowles, sixth place; Wayne Bartlett, sixth place; Dean Miller, ninth place; Randy Thompson, fifth place; Brian Blue, eighth place; Lonnie Reid, fourth place; and Jim Diedrich, eighth place.

Lewis News Page 1
Modarelli retires

Modarelli...

(Continued from page 1)



James J. Modarelli
 Vol. 16 # 2 Jan. 19, 1979

The man who gave the NASA agency the familiar seal and insignia logo, commonly called the 'meatball,' is retiring after nearly 30 years of federal service.

See other retirees on page 3

James J. Modarelli, whose 'meatball' was replaced by the NASA 'worm,' and chief of the Administrative Services Division, will continue his artistic pursuits after his retirement this month.

"He is one of only a few people I've ever known who has never had a negative comment made about him," observed a member of Modarelli's division.

The likeable artist has equipped a studio in his Middleburg Heights home and plans to devote full
 (Continued on page 2)

time to painting and ceramics. However, before he begins, Modarelli will take a well earned vacation in Florida next month with his wife, Lois.

Since starting at Lewis in 1949, as a technical equipment illustrator, Jim moved steadily up the career ladder and was named division chief of what is now the Management Services Division in 1954.

When he retired earlier this month, the division numbered some 100 persons. "The division is similar to a publishing house where we provide services in technical editing, manuscript typing, illustration and statistical drafting, photography and reproduction and printing services. Additionally, the division also provides administrative services such as library, telecommunication and office planning, mail and travel reservation," Jim said.

When Jim isn't working in his artist studio, you may find him jogging along Middleburg Heights winding streets, taking a foreign language or attending Middleburg Heights council meetings where he has served as a councilman and seven years as safety director. He is currently serving on the city's civil service commission. "I don't expect to do much more in politics beyond what I am presently doing," Jim said, leaving his options mothballed until the urge to campaign again becomes an obsession.

Jim speaks of the high caliber of dedicated people he has known at Lewis and the contributions the Center has made to the national effort. He modestly declined to mention his significant contributions to those efforts. Jim's like that. He'd rather see others recognized except when he is talking about his honors in jogging.

100-year relay highlights



Pageantry and pride are exuded by the Misfits (Dan Cica, Virginia Canright, Ollie Reese, and Mary Michaelis) from Computer Services.

Milt's Milers, from Wind Tunnel & Flight Division, were victorious by nearly a minute over the best of 26 other teams in Lewis' Third 100-Year Relay Race. An impressive second place finish by the CentiSSpeeds of Space Propulsion and Power Division completed the shakeup of the top four teams. The winning net time was 23 minutes 36 seconds for the exact five mile course. Milt (Beheim's) Milers combined an actual run of 29 minutes 56 seconds with a headstart (handicap) of 6:20.



John Adamczyk, Jr., age 8, is still flying as he passes the family team baton to sister Peggy, age 10.



In the classic 100-Year Relay start sequence, Dorothy Morris of the Lewis Library takes off 8th for the No. 8 Fleet Feet team, exactly 6 minutes 20 seconds before "zero." Lower handicapped teams (higher numbers) wait enviously as Dorothy begins to whiz out a 5:53 net mile.

Jack Reinmann's 5:45 mile, (a 4:39 equivalent for a 25-year old!) raised WT&F out of the runner-up category, while his former champion Division-mates from Fluid Systems dropped to a close third place.

Despite being the Most Improved Team, the Army Research and Technology Labs, slipped a notch to fourth place. Only teams with the same four runners are eligible for the Most Improved trophy.



Marathoners Bob Stubbs, left, and Bernie Hamrock turn in back-to-back swift miles for the defending champion Wind Chasers from Fluid Systems Components Division.



Jogging enthusiast Thelma Hunt passes to retired boss Jim Modarelli as the Past 40's from Management Services Division take full advantage of the highest handicap (9½ minutes) and their No. 1 starting position.

Crowd fervor reached its height as Madd Milers' Donna Pribish stood off a strong finishing kick by the Truculent Turtles' Kerry McLallin. Donna ran two miles in 14:28, the last quarter mile with Kerry right at her heels, as he did 1¼ miles in 8:06. Each team can divide the five miles among its four runners as they see fit. Eleven teams chose two mile anchor people.

Equivalent times are the times a 25-year-old male would need to run to do equally well. Equivalent times consider the specific distance run as well as handicap. They differ from net times.



Past 40's Dave Clinton nips the Bowditch Family anchorman by a scant second for 15th place.

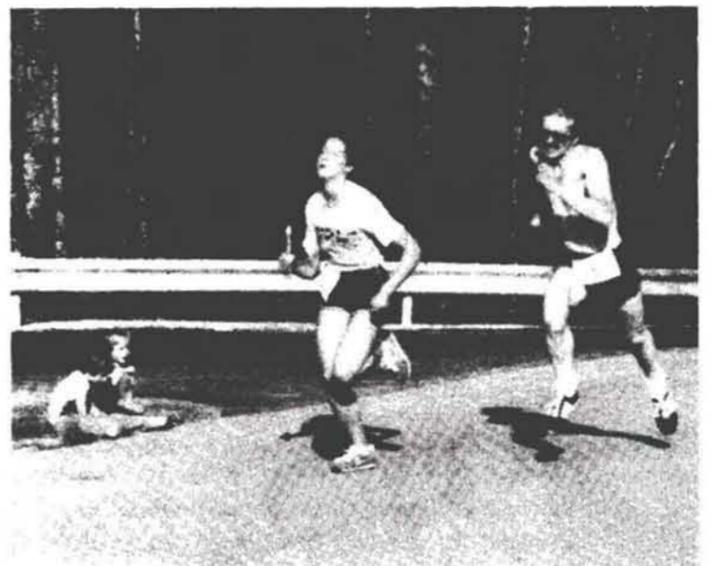


A youthful Annie Easley, left, completes a crisp 5:42 net mile before handing off to a young Monica Pribish on the all female Madd Milers.

100-Year Relay Results

Place	Team	Net Time
1		12
2		13
3		14
4		15
5		16
6		
7		
8		
9		
10		
11		

Race official Gerry Gebura posts team results in near real time. Many more teams and we'll need taller officials!



Donna Pribish, 2 mile workhorse for the early starting Madd Milers, noses out 18th place from Kerry McLallin, anchoring 1¼ miles for late starting Truculent Turtles from Fluid Systems Division. This gutsy duo matched strides for the last quarter mile after Kerry had closed the gap.

July is eyeglass recycling month at center

The month of July has been designated "Glasses Recycling Month" at Lewis. Since the summer of 1978, Lewis has been collecting discarded eyeglasses and donating them to The Cleveland Society for the Blind.

This lab-wide public service project was originated by James J. Modarelli, former chief of the Management Services Division. Before his retirement in January, 1979, Modarelli enlisted June C. Szucs, secretary in the Small Business and Sources Office, as his successor.

"This year, containers will be conveniently located in the Center's three cafeterias for collecting glasses, frames and cases," said Szucs.

In a letter to Director Andrew J. Stofan, Cleo B. Dolan, executive director of the society's Sight Center, said, "Our agency is indeed indebted to the personnel at NASA Lewis for their long interest in the work of the society. We are especially grateful for the literally thousands of pairs of eyeglasses that have been collected and made available over the past several years."

Dolan explained that the precious metals in the glasses are reclaimed, and



JULY IS EYEGASSES MONTH - June Szucs of the Small Business Office is chairman of the eyeglass collection drive now underway at Lewis.

Paul Farace photo

the income from the metals goes to the Society. The majority of the glasses are given to the Ohio State University School of Optometry, which, with the help of volunteers, cleans, repairs and identifies the prescription of each pair, and ships them to underdeveloped countries to be used by the needy.

“NACA Had A Unique Esprit de Corps”

James Modarelli, in addition to heading the Management Services Division, was often assigned to special one-of-a-kind projects. Typical of these was a summer camp for pre-apprentice training classes for 102 minority high school graduates, NACA Triennial Inspections, VIP retirement parties and a variety of employee moral activities.

A particularly rewarding highlight for Modarelli was working with Irv Pinkel as co-chairman on the historic 1962 Space Fair at Public Auditorium. “The unique venture, more than any other single event, demonstrated the incredible capabilities and talents that existed within the entire Lewis staff,” said Modarelli. “Their esprit de corps was especially evident during their all-out effort to create more than 30,000 sq. ft. of displays and demonstrations to portray the work of NASA. The show date, a mere four months away, was met with just hours to spare. But it was all worth it when an enthusiastic and appreciative public responded by exceeding all previous attendance records.”

As a NACA/NASA employee from 1949 until his retirement in 1979, Modarelli said he now looks back with pride and a sense of accomplishment on those years of working with such an unusual and remarkable team of dedicated people.



Lewis News

Volume 29 Issue 14 July 3, 1992

Designer Reflects On Creation Of NASA "Meatball"

After the success of the *Endeavour* mission, NASA Administrator Daniel Goldin triumphed that the magic and can-do spirit of the Agency is back. In honor of this spirit, said Goldin, "it seems only fitting that the original NASA insignia—affectionately known as the 'meatball'—be a part of our future." NASA employees across the nation enthusiastically welcomed back the symbol, especially Lewis retiree

James Modarelli, creator of NASA's original insignia as well as the official seal.

"It all started in 1959 when NACA Executive Secretary John Victory sent out a letter to Ames, Langley, and Lewis Laboratories for suggestions for a NASA seal. Members of Lewis' illustration section of the Research Reports Division sent a few designs, one of which was chosen and officially approved by President Eisenhower," explained Modarelli, who headed the division at the time. Because the seal could be used only for official applications, NASA's first administrator, Dr. T. Keith Glennan, asked Modarelli to design an insignia for a more informal identification of the new Agency.

"I chose the main elements from the seal—the sphere, representing a planet; stars, representing space; the wing, representing aeronautics (the latest design in hypersonic wings at the time); and an orbiting spacecraft. Then I added the letters: N-A-S-A," said

Modarelli. "The insignia was later dubbed the 'meatball' by Frank 'Red' Rowsome, head of technical publications at NASA Headquarters, to differentiate from the new logo he called the 'worm'."

The "meatball" served the Agency well until 1975 when it was decided that NASA's insignia should take on a more contemporary appearance, recalled Modarelli. The "worm", which displays NASA in high-tech red lettering, was then introduced.

"I didn't have any objection to a new logo for NASA, but I have always felt the 'worm' didn't complement the NASA seal and was too flashy and trendy. Since the original insignia ('meatball') is made up of the same elements as the seal, the two complement each other. There is a definite relationship," he said.

Goldin said the insignia transition will take time. Just because the current insignia is being replaced, does not mean we should throw out old station-

ery or repaint NASA vehicles. He said the new NASA will be frugal—finding ways to do everything faster, better, and cheaper without compromising safety.

Meanwhile, Modarelli, who worked at Lewis from 1949 until 1979, is enthusiastic about Goldin's decision to reinstate the "meatball". "The design for the seal and original insignia were intended to be conservative and a reflection of diligent spending of public monies. If Administrator Goldin feels the original



The original insignia ("meatball") is made up of the same elements as the seal (top).

insignia conveys that judicious guardianship of public funds, and promotes pride and dedication within NASA, then I think that's a positive step forward for NASA," said Modarelli.



Lewis retiree, James Modarelli, designed the seal and insignia.

Focus on Excellence

Goldin Makes The Cleveland Connection



A highlight of Administrator Goldin's visit was an opportunity to share with students of Anton Grdina School the joy of building their own space station village.

Photos by Tom Jares and Quentin Schwinn



As keynote speaker for the National Space Club, Ohio Regional Committee's Inaugural Breakfast, Administrator Goldin (left) shared NASA's vision for the future with fellow professionals in the space industry. He is pictured with Andrew Stofan, chief executive officer of Analex Corp. and chairman of the Ohio Regional Committee.



In special recognition of his design of the original NASA insignia "meatball", Lewis retiree James Modarelli (left) was presented a plaque of appreciation by Goldin. Also pictured is Modarelli's wife, Lois.

Continued from page one
port and interest of the public, including potential employees. "We're loosing the support of graduate students and outside scientists who move on to other fields where the scientific pay-off is quicker," he explained.

As with the Moon, Goldin sees Mars as an important destination for exploration. He said Space Station *Freedom* (SSF) is

the first step to getting there. "SSF will not cure cancer or AIDS," said Goldin. "What it will do is help us to understand how humans live and work in space so that we can get on with exploration."

He discussed how SSF will help the world gain a better understanding of life sciences here on Earth as well. "Bringing back that knowledge to Earth

can help spur on new industries and create jobs that build a value-added base to our economy," he said.

Prior to his ALERT presentation, Goldin toured Lewis, Plum Brook, and the Ohio Aerospace Institute; visited two elementary schools; and served as the keynote speaker at the Nuclear Propulsion Technical Interchange and the National Space Club's Inaugural Breakfast.

During a visit to Anton Grdina School (a Cleveland school that has integrated the space program into its curriculum), Goldin, accompanied by Center Director Larry Ross, announced a \$1.3 million cooperative agreement with Wilberforce University, Wilberforce, OH.

The historic three-year agreement will allow Wilberforce faculty and students to conduct experiments in Lewis' laboratories, provide teaching opportunities for Lewis scientists, and fund a research institute to further the development of solar cell devices.

Rep. Louis Stokes, D-21, who was also in attendance, commended Ross on establishing partnerships with the University as well as the elementary school. "As we look to the future we realize our global leadership and competitiveness is directly linked with our ability to prepare young people to compete in a technologically advanced society," said Stokes.

Dr. John Henderson, president of Wilberforce University, participated in the signing of the agreement. "Wilberforce is honored to be involved in this partnership with NASA," said Dr. Henderson. "It is symbolic that this signing occurred at an elementary school, because if we are going to impact the science and technology careers of our children, especially those of African American descent, it begins at this level. Wilberforce is excited to be a part of the pipeline that will open doors of opportunity for all young people pursuing technical careers."



Administrator Goldin witnessed the signing of a cooperative agreement between Lewis and Wilberforce University. The three-year agreement would allow Wilberforce faculty and students to conduct experiments at Lewis' laboratories, provide teaching opportunities for Lewis scientists, and fund a research institute to further the development of solar cell devices. Pictured are: (left to right) Lewis Director Larry Ross; Wilberforce President Dr. John Henderson; Power Technology Division member Dr. Al Hepp; Wilberforce Vice President of Academic Affairs Dr. Ronald Glenn; Rep. Louis Stokes, D-21, (sitting); Assistant Deputy for Business Resources Dr. Julian Earls; and Administrator Goldin.



Encouraging young people to pursue math and science careers, NASA Assistant Deputy Administrator and astronaut Charles Bolden Jr. talked with students at John Glenn Elementary School in Seven Hills.



After his ALERT presentation Administrator Goldin received feedback from Lewis employees. Pictured are: (left to right) Gretchen Davidian, Electrical Systems Division; Bryan Palaszewski, Robert Jankovsky (in doorway), and Marc Millis, Space Technology Division; and Administrator Goldin.



During a special ceremony at the new Ohio Aerospace Institute Headquarters on Cedar Point Road, Administrator Goldin learned first-hand about the efforts Lewis, universities, and outside researchers are making towards the future of the aerospace industry. Pictured are: (left to right) Deputy Director Dr. Stuart Fordyce, Center Director Larry Ross, Administrator Goldin, and OAI Director Dr. Michael Salkind.



Lewis NEWS

Volume 34 Issue 11 November 1997

Celebrating the spirit of the Agency

Employees rededicate famous NASA symbol

By Kristin K. Wilson

THE "meatball," which has come to represent the magic and can-do spirit of the Agency, once again has a prominent place on the south side of NASA Lewis' landmark Hangar. The new 20-foot diameter insignia replaces the one that workers had removed 3 months ago after 35 years of rain, snow, and sun had taken its toll.

Nearly 250 NASA Lewis employees gathered inside the Hangar on Oct. 1, exactly 39 years after NASA was "born" out of the National Advisory Committee on Aeronautics (NACA), to rededicate the famous blue logo.

"I hope that we look at this meatball today as a new beginning and a symbol of the renaissance of the Center," said Mario Castro-Cedeno, chief of the Manufacturing Engineering Division responsible for the fabrication of the new insignia. "Our division is proud to have been given the opportunity to work on this project."

Center Director Donald Campbell praised the craftsman who created the new insignia, applauding their high quality workmanship and diligence in accomplishing the task in four weeks.

"On behalf of all the employees, I would like to accept this [the meatball] and thank you for the work you have done," Campbell said.

Following the rededication ceremony, employees lined up to sign their names, and in some cases their children's names, on the back of the meatball. NASA Lewis retiree James Modarelli,



Photo by Tom Jones

Lewis retiree James Modarelli, who designed the meatball in 1959, was the first to sign his name to the new insignia at the rededication ceremony held Oct. 1.

who designed the insignia in 1959 when he was head of the former Research Reports Division, was the honored guest at the event and the first to sign.

"When I created the meatball, I never expected anyone to pay any special attention to me, but I do appreciate it. I'm glad to see it back on the Hangar thanks to all of you," he said.

The men behind the meatball

Under normal circumstances, a meatball 20 feet in diameter could only be found in the pages of the *Guinness Book of World Records*. But craftsmen Joe Kerka and Michael Cawthon, Fabrication Shop, and Herb Stannert and Herb Lawrence, Wood Model Shop, were not the least bit intimidated at the prospect of building the insignia and a smaller 18-foot version to be mounted on the north side of the Hangar later this month.

"If someone can dream it, we can build it," said Cawthon, who over the past 13 years has fabricated unique, one-of-a-kind hardware (continued on page 10)

Congratulations to Lewis' Cassini Engineering and Launch Team!

The team successfully launched the Cassini spacecraft on Oct. 15. The \$3.4 million mission will orbit Saturn, study the planet and its icy rings, and send a probe to the surface of Saturn's largest moon Titan.

Details are available on the Internet:
<http://www.lerc.nasa.gov/WWW/PAO/cassini.htm>



Lewis craftsman fabricate new insignias



Herb Stannert (left) and Herb Lawrence, both of the Wood Model Shop, stenciled the design on the new meatball. They, along with Michael Cawthon and Joe Kerka, both of the Fabrication Shop, are putting the final touches on a second meatball to be mounted on the north side of the Hangar later this month.

(continued from page 1)

over the past 13 years has fabricated unique, one-of-a-kind hardware for space experiments and created aeronautic models for wind tunnel testing.

One walk through the two shops, equipped with everything from industrial gauge woodworking tools that would make Norm Abram blush to a water knife that cuts through steel like a hot knife through butter, and there is no doubt that these guys can build just about anything. Especially when you throw their ingenuity and years of experience into the mix.

This was the first major project on which the two shops worked hand in hand. Kerka and Cawthon designed and welded the aluminum frames that support the heavy duty plywood signs. Stannert and Lawrence used a water knife to cut the templates they created from the old insignia. The team then joined the two parts together using more than 500 nuts and bolts. Next, they stenciled the design and colored it with enamel sign paint.

While the project provided a break from the typical research driven work, it gave the craftsmen a great deal of satisfaction.

"It was fun to take on a project that you're responsible for from start to finish," Lawrence said. "We always take a lot of pride in the work that we do, but we really felt a sense of ownership with this project. It gave us the opportunity to create something that all Lewis employees can enjoy and be proud of."

How it all started

Over the years, the meatball has come to occupy a special place in the hearts of NASA employees. The symbol came into existence in 1959 when John Victory, then executive secretary of NACA, sent a letter to

Ames, Langley, and Lewis laboratories soliciting suggestions for a NASA seal. Members of NASA Lewis' illustration section of the Research Reports Division submitted a few designs, one of which was chosen and officially approved by President Eisenhower. Because the seal could be used only for official applications, NASA's first administrator, Dr. T. Keith Glennan, asked Modarelli, who headed the Research Reports Division at the time, to design an insignia for a more informal identification of the new Agency.

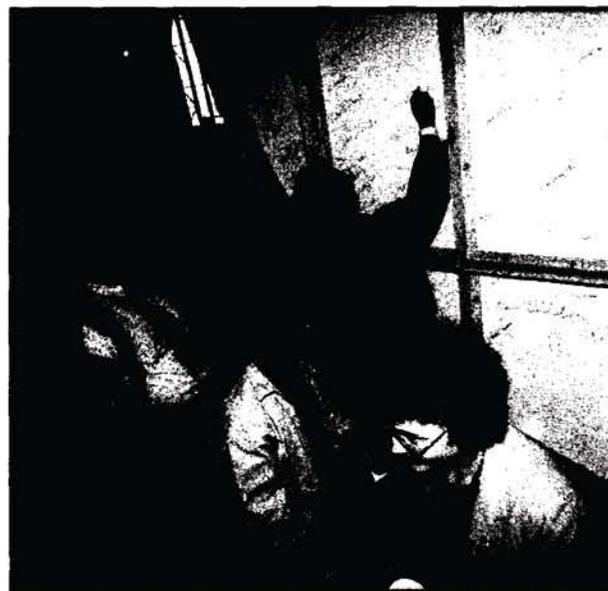
Modarelli said that he chose the main elements from the seal—the circle, representing the planets; stars, representing space; the wing, representing aeronautics; and an orbiting spacecraft. He then added the letters: N-A-S-A.

The insignia was later dubbed the "meatball" by Frank "Red" Rowsome, head of technical publications at NASA Headquarters, to differentiate it from the new logo he called the "worm."

The meatball served the Agency well until 1975 when it was decided that NASA's insignia should take on a more contemporary appearance. The worm, which displays NASA in a high-tech red font, was then introduced.

Current NASA Administrator Daniel Goldin brought back the meatball in May 1992. The decision followed the success of the *Endeavor* space shuttle mission to show, in Goldin's words, that "the magic is back at NASA."

Today, with the meatball restored to its proper place on the back of the Hangar, and soon to take center stage on the front, employees can once again look upon the symbol that stood for NASA excellence in the past and now represents the world-class NASA of the future. ♦



More than 1,000 employees signed the meatball before its installation on the south side of the Hangar. Most just signed their names, while others wrote their children's names or composed brief poems.

Photos by Tom Jares

Continued...