Top Air Officials to Come Here for Lab Ceremony

sons.

The rapid grewth of air transportation is reflected in the fact that it took the company 10 years to carry its first million passenger two years and gaven menths to carry its securid million and just little over a year to carry its thirms.

Under the provisions of the ne-proposed CAA budget, the civilia pilot training program could trai during 1943 approximately 20.00 beginners, and approximately 20.00 accordary students who alread have graduated from the beginner

At present the course is being given in 700 colleges and it is est mated that more than 70,000 individuals—have received instruction About 55,000 of these are structured.

COULTER

By ED CLARKE Aviation Editor

Ground-Breaking as

Work Starts at Airport PD 1/13/41

Aviation Editor

Maj. Gen. George H. Brett, acting chief of the Army Air Corps, will head the group of top-ranking aeronautical officials who will come from Washington on Jan. 23 to participate in a civic lincheon and ground breaking ceremonies for the Government's new airplane engine research laboratory to be built on the Clevelland Airport,

Id amnoughing plans for the ceremonies, Walter I. Beam, executive vice president of the Chamber of Commerce, said acceptances have already been received from Col. Donald H. Connolly, administrator of Civil Aeronautics; Dr. George W. Lewis, director of aeronautical research, and John F. Victory, secretary of the National Advisory Committee for Aeronautics; Dr. Edward Warner, Civil Aeronautics Board Capi. Sydney M. Krats, U. S. Navy and other ranking Army officials.

Geverner to Be Here

Gen.

Governor to Be Here

Gov. John W. Bricker, Mayo
Eriward Hythin and other public officials will also participate in the coramonder. Mr. Ream said.

The visiting distribution will arrive by place and brain on the morning of Jan in. Its hunches will be held at the Hotel Olevelane at 12-15 n.m. At 2 n.m. the lunches will adjourn to the airport for the ground breaking ceremonies in motorogde with police specification of One Chambe of One of the Chambe of One of the State of the Chambe of the Cham Sets Fassenger Record

American Airlines carried it
3,000,000th passenger yesterday, thu
becoming the first sirine in th
world so transport that many per

Brett to Aid in

1941

Plane Engine Lab to Play Vital Part in U.S. Defenses

Says Williams Mant Here Will Contribute

to Airplane Development

By MAJ. AL WILLIAMS What logic and pleading could not accomplish for American aeronauti-



than never, though, and the emergency is bringing us research facilities that have been and are today the real bottleneck of Ameri-

Better late

can air power. The original research center of American Congress recently thorized and appropriated funds for

another such center at Sunnyvale, Cal., and a third and more recent plant'at Cleveland. Until 1940, Congress—and the rest of the country, for that matter— held the tiles that sir power merely means lots of planes, pilots and meand the rest means i

On the contrary, air power is whose pattern—a great magra machine, whose three m training of place. These solars to turn amount of plants of plants. what sind of plan

There's no earthy use in building a lot of planes until a needlete earth seutical research job has been don Lack of thorough research results. frequent attempted alterations after a given type of plans has gone into penduction. These in turn, delay

erch tells what kind of ships can be built, and further, research

Cleveland Press

TUESDAY, JANUARY 21, 194

A Clevelander Climbs High

The name "Brett" once was a household word in Cleveland. it was a name made notable in the library world by William Howard Brett, who for 34 years was librarian of Cleveland.

Today the Brett name has become distinguished in another field of endeavor. It is a field that, because of the parlous times, has become most vital. It is the military. And the Brett name has been carried high by Mai. Gen. George H. Brett, acting chief of the Army Air Corps, son of William Howard Brett. He returns to Cleveland Thursday.

By ROBERT SELTZER

ARLY in this century a matronly woman, diffident but determined, visited Central High School, from which numerous notable Cleveland citizens were graduated and whose story is a history of Cleveland.

Three of her four sons and a daughter had been graduated from Central. Another son had left a (an months prior to commencement day. He had acquired sufficient credits to enter Virginia Military Institute and, impatient and ambitious to embark on a military career, he had quit school

whose rame was synonymous with then principal of Central.

Cleveland's famed library system... franches it wasn't fair.



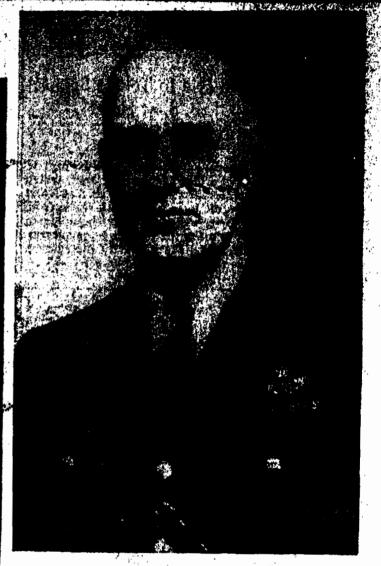
William Howard Brett . . . portrait in Public Library.

tizing the Public Library and bring-130n, George, should be the only one

The visitor was Mrs William ing it to the people.

Howard Brett, wife of the man She appealed to Edward L. Harris, cherished diploma from Central. Only a formality stood between him "Amount to a hide!

George H. Brett. the Army Air Corps. 1,455 April 20 His mother died six years ago, His their younger brother, Allen, from father was the tragic victim, at the service.



Maj. Gen. Brett . . . high in Army

son. A diploma was made out for Point graduate.) And William H Jr. was a first lieutenant in the On Thursday, George H. Brett re- Ordnance Department. Their turns to Cleveland. He returns as brother-in-law, Ralph Spengler, a major general and acting chief of served overseas as a captain in the Army. Defective eyesight barred

height of his achievements, of an Maj. Gen. Brett has been com-automobile accident in 1918. Still manding officer at Wright Field, living in Oleveland are a brother Davion and at Salfridge

anatroniy woman, diindent but determined, visited Central High School, from which numerous notable Cleveland: citizens were graduated and whose story is a history of Three of her four sons and a daughter had been graduated from Central. Another son had left a

William Howard Brett . . . portrait in Public Library

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Cleveland.

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Howard Brett, wife of the man

career, he had quit school.

He had acquired aufficient credits to enter Virginia Military Institute and, impatient and ambi-

Only a formality stood between him Cleveland's famed library system-Somehow, it wasn't fair; in fact, and a diploma. the man who pioneered in democra- it was a manifest injustice that her Mr. Harris was amenable to rea-

Here is an aerial view of Cleveland Airpp et, an which are superimposed miniatures of the buildings which will be constructed for the Government's new \$8,400,000 airplane engine research laboratory. The units are as follows: (1) Administration building, (2) test hangar, (3) cooling towers, (4) service building, (5) wind tunnel, (6) engine laboratory, (7) fuels and lubricants laboratory. Off to the right-and off this picture will be the engine house. It will be built in the woods to muffle sound,

Maj. Con. Braft . . high in Army

son. A diploma was made out for Point graduate.) And William H. George H. Brett. On Thursday, George H. Brett re- Ordinance Department. Their turns to Cleveland. He returns as brother-in-law, Ralph Spengler,

a major general and acting chief of served overseas as a captain in the the Army Air Corps. Army. Defective eyesight barred His mother died six years ago. His their youngers brother, Allen, from father was the tragic victim, at the service, Mai. Gen. Brett has been com-

height of his achievements, of an automobile accident in 1918. Still

bourne road, Shaker Heights, director-secretary of the Enamel Products Co., and a sister, Mrs. Ralph A. Spengler, 3312 Clarendon road, Cleveland Heights.

Col. Morgan Lewis Brett, U. S. Army, retired, lives in Tombstone, Arlz., in the summer and at Fallen Leaf Lake, Cal., in the winter, Another brother-the youngest-Allen; is in the construction business in Detroit.

Maj. Gen. Brett comes to Cleveland Thursday for a civic luncheon and the ground-breaking ceremonies for the Government's new airplane engine research laboratory at Cleveland Airport sponsored by the Chamber of Commerce. The luncheon will be at Hotel Cleve-

"High-ranking officials of the Navy Air Force and federal aeronautical agencies sleo will come here from Washington for the dedicatory program for the \$8,400,000 research plant.

Major in World War Maj Gen. Brett has had a varied

was graduated from Virginia Military Institute. He served with the Philippine Scouts, a constabulary, then was commissioned in the periodicals and applied it to library Regular Army as a cavalry officer. In 1914 he entered the Army Alr library system. "He conceived, with Corps and was one of the earliest broadest scope, a school and library of the "Early Birds." During the co-operation. World War he served in the Air Corps with the rank of major. At peaceful pursuits to have a mili-the same time two of his brothers taristic son? No, for William Howwere in service. Morgan was a and Brett's service in the Oivil War colonel in the Army. (He is a West influenced all his sons.

manding officer at Wright Field, living in Oleveland are a brother, Dayton, and at Belfridge Field, Mt. William H. Brett Jr., 2345 Chad- Clemens Mich. He served as brigadier general ion a three-year detail in the Canal Sone. He has spent time at the Army War College in Washington and, at the Army School at Fort Leavenworth, Kas., where he also was an instructor.

Stationed in Capital

Since the outbreak of the war in Europe Maj. Gen. Brett has been stationed in 'Vashington. Miss Linds A. Eastman, who retired last year as librarian, successor to William Howard Brett, today expressed hope of seeing Maj. Gen. Brett while he is in Cleveland. She last saw him in 1926 when he flew here from Wright Field for the unveiling of a portrait of his father at Public Library.

Georga Brett, is 53. He has two

daughters and a son. One daughter is married. Her husband is an Army Air Corps spilot at Wright George Brett's father was librar-ian in Cleveland from 1834 to his. death, Aug. 24, 1918. During that 34-year span he was one of the best-known, best-appreciated men and adventurous career since he

in the city. He proved the wisdom and practicability of the open-shelf system. He perfected cumulative indexing of service. He developed the branch

Paradoxical for a man of such

tells what military features can and camot be incorporated in planes of given type. high

Performance is at a premium for air fighting. Rapid climb, high speed, and long cruising range are essential items which must be planned and earned in wind tunnels and experimental laboratories.

Superior Planes Win Doglights
The courage of a pilot is a secondary factor when flight perform-

ance is weighed against it.

The winner of a race manot be braver than the fe The winner of a race using the not be braver than the fellow who finishes second or third. He may or may not be more skillful. If his ahigh has the performance, he should win and usually does, if he has only a fiving ability. And performance the second control of or m

and usually does, if he has only normal flying ability And perform-ance is predominantly important when two or more men meet in mor-tal combat in the air. And the only important

this performance

eronautics. It he World War

way to get search for it. The organization charged with na-tional aeronautical research is the National Advisory Committee for is the ronautics. It was formed during a World War and has continued report directly to the President. Under the able leadership of Dr. George Lewis, the understaffed and underequipped NACA gallantly and doggedly kept America aware of the phenomenal advances in aeronuatics and has contributed more than its to progress.

Shortage of Engineers Until this emergency awakening hit the United States, the NACA had about 400 scientific experts and eronautical engineers at Langley Held to carry the entire burden of her major engineering, flight and accessory problems of commercial aviation (sirine transportation forming the greater portion), and simust all the research for the Army

nd the Nevy. Compared to what has been going on abroad, this body of 400 men has seemantshed wonders.

More than four years ago, Germeny has some 7500 notenties and sufficiently constalled exclusively included by assumptional research, the the seculiar proportional services of stupendous proportional. erable relief, icen eviation dditional re-sing built. Įţ, efore, that An earch,

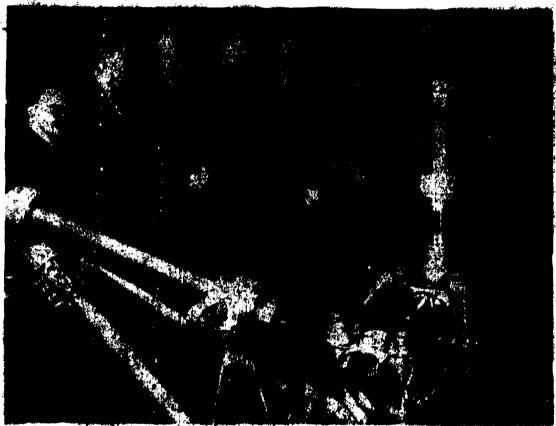
eveland Lab Plays Part
new MACA center at Cleveresigned for allerant imgine
h, will play a most prominent
vical part in the types and
american flying The Per ficiencia er plants in years to con An American aircraft engine of bout 2000 horsepower has recently in meduction. Time

m placed in production. Time ne will eliminate the "buga" m this new engine. What of the future? we will soon need 2000 and 4000respower engines. At this writg the United States would give
Army and Navy teeth for a
eamlined, liquid cooled 2000response engines.

We are deficient in the liquidpled type at any horaspower. We
we no Diesel, heavy oil-burning,
gines. Never mind asking why,
at's past and too late. The fuliteration our three MACA recarch. Centre,

Sear

Inspect Defense Activities Here



Cheffing on progress in Cleveland's defense plants today were those officials from Washington, who also attended a civil luminsen and attended ground-hunding coremotion for the new Aspenanties Laboratory at the Airport. Bhown Impacting a B-12 landing year street at Cleveland Facumath Tact Co., 27% E. 19th street, also, left to right, Clifford Citionnierve, Chamber of Commerce; A. B. Johnson, factory superintendent; Guerry Saria, National Advicery Committee for Accomaniles; Dr. Edward Warner, Clyli Astronauties Ausherfty; Capt. S. M. Eraus, U. S. N.; Louis W. Cipye, company president; Cariton Emper and S. Rad Johnson, both of the Natignal Advisory Committee for

Honor Hopkins Tomorrow as City

a Airport Founder

Chamber Holds Lunch as Work Starts on Air

Research Center

By ROBERT SELTZER Cleveland, an air-minded city, tomorrow will hence the man who made possible this town's acquisition of the Government's projected \$8,400,000 airplane engine research laboratory. He made the laboratory possible for Cleveland because he made the Cleveland Airport possible. He is William Rowland Hopkins. city manager of Cleveland from 1924

to 1930, the man who conceived and, overcoming many obstacles and ob-structionists, brought into reality the airport—today the world's busiest air traffic center. Mr. Hopkins will be the guest of

honor at a civic luncheon at Hotel Cleveland sponsored by the Chamber of Commerce in conjunction with the ground-breaking care

amphies for the new research plant. At the speakers' table will be high-ranking officials of the Army

and Navy air forces and Federal aeronautical agencies from Washington, but top-honors will go to the dark-haired Wrishman who rose to prominence from the job of scale boy in the Newburgh steel mills. Steel Mills a Springboard

The milis were a springboard for "Bill" Hopkins. He saved enough while working at the Cleveland Roll-

ing Mills to enter Western Reserve University, He won Phi Beta Kappa honors and was graduated in 11 Three years later he obtained his law degree at Reserve. He was elected to City Council from the Newburgh district while a freshman in law school, thus embarking on a speciagular career in Cleveland politics.

Attorney, hig business premoter and real estate operator. Heating envisioned a belt line railroad to encircle the city and expedite freight movements for all the carriers. He doggedly surmounted all obstacles and achieved his purpose in five years. One of his vital interests was and still is transportation.

His story is interwoven with the history of Cleveland. He wrote the first 3-cent fare ordinance ever introduced in Cleveland. He was the first passenger to fly to New York in

While he was

city manager, the Public Hall wings were built, the Stadium was started, were built, the Stadium was surred, welfare institutions were improved. He acquired land for the airport and the project was opened in 1925 agone at the first "fully equipped" night landing fields in the country. Pyc. this into other enterprises, he was denounced as a "visionary." De-

tractors sareastically characterised him as "Superman." His capacity

an air mail plane.

Made Possible Engine Lab



sioner Jack Berry. for making speeches earned for him port land the sobriquet "Chautauqua Bill." When C

Acted in 1884 A meeting of Mr. Hopkins with Capt. Eddie Rickenbacker, World

War see, was arranged in Detroit. Rickenbacker clied, the future of commercial aviation, urged Mr. Hopkins to acquire land and build a port at least a mile aquare. This was in 1934. Mr. Hopkins charked available property to minutes from Public Square decided on the Brook Park sorease. Glatin Is Martin, the Air-

plane builder: David E. Ingalis and Capt. Bickenbacker inspected all

At this properties. Department rently farm at Western field. All the then only in the daytime. planes landed in a small port of 30 acres near the Glenn L. Martin plant. Night flying was planned to start July 1, 1925. Mr. Hopkins reported to City Council that he had optioned 800

acres and outlined his plans. The Council had no authority to acquire

land and build an airport until the

State Legislature enacted a law, effective July 1, 1885.
Workmen from the Postoffice Department and the city leveled the land. Jack Berry, then a field enginer for the Postoffice Department, was sent here to install lighting. Mr. Hopkins liked him so well he retained him as airport commis-

as the flying city manager and Airport

When Cleveland took its place on Today, Mr. Hopkins sat in his of-fice at the Belt & Terminal Bealty the U. S. air mail service inaugu-co., Society for Savings Building rated regular night flights between and told how the airport came into New York and Chicago, completing night and day service from coast to coast passenger service was un-

dramed of. "Scientists will blaze new trails in laboratories such as that being built here," said Mr. Hopkins. "The air-craft researchers will work for bigger and faster ships and inexpen-sive amail ships. The airport is large enough to separate the types.

They will get speeds higher and higher. Nobody can set a limit on what they can do."

Pric Will Led Opposition

Now Many Waar

W. R. HOPKINS STARTED IT On Thursday, Cleveland will celebrate

with appropriate ceremonies the start of construction of the \$8,000,000 federal air laboratory on the west edge of the Cleveland Airport.

If Cleveland did not have a great zirport, with a huge capacity for handling planes, the Government would not be building this laboratory here.

ing this laboratory here.

Time passes so rapidly that some people in Cleveland may forget the leadership of William R. Hopkins when he was city

william R. Hopkins when he was city manager in establishing this airport.

At its civic luncheon Thursday, the Chamber of Commerce should see that Mr.

Cleveland Press - January 20, 1941

at Civic Luncheon

Honor W. R. Hopkins

William R. Hopkins, former city manager and the man who conceived and brought into being

Cleveland Airport, will be guest of

honor Thursday at a civic luncheon in conjunction with ground-break-ing ceremonies for the Govern-ment's new airplane engine research laboratory. Attorney, business promoter and

real estate operator, Mr. Hopkins will sit at the speakers' table with high-ranking officials of the Army and Navy air forces and federal aeronautical agencies at the luncheon at Hotel Cleveland, sponsored

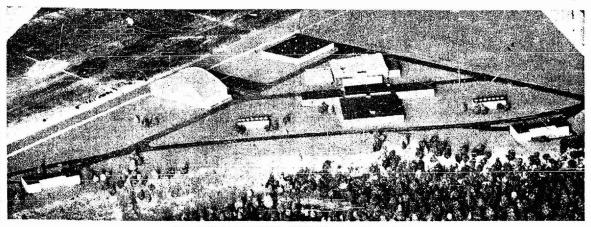
by the Chamber of Commerce. Mr. Hopkins, who overcame stout opposition to the airport project and saw it officially opened on July 1. 1925, will accompany the party to the airport for the dedicatory pro-

gram for the laboratory. Bakery Driver Robbed

While making an early morning delivery at E. 64th street and Quincy avenue today, Carl Koenig 37, a driver for the Lasch Bakery of 1465 E, 65th street, was robbed of \$7 by Tioldup man

Cleveland Press - January 21, 1941

Ready to Break Ground for \$8,400,000 Air Laboratory



HOW THE LABORATORY WILL LOOK FROM THE AIR



MISS NORMA TOPLIFF

Using a chromium-plated pick and tration building of the research censhovel, officials of the state of Ohio. ter. At the lower right is the fuels the city of Cleveland, the Cleveland and lubricants laboratory,

The large structure with wings, Chamber of Commerce and the Na- at the rear, is the engine research tional Advisory Committee for Aer- laboratory proper. In the same plot onautics, with high officers of the and on each side of that structure United States Army Air Corps and are water cooling towers. navy aviation, will break ground Immediately behind the engine at Cleveland airport tomorrow aft- laboratory is the high-speed wind

by the federal government. pared and presented to the Cham-tunnel shop. ber by the Geo. Worthington Co., The structure with the curved was Miss Norma Topliff, secretary roof is the flight research labora-

of laboratory buildings. The road ing. of the airport.

commissioner for the Chamber.

ernoon for the first unit of the tunnel designed to permit research \$8,400,000 aviation engine research under temperature and pressure laboratory to be built and operated conditions existing at high altitudes. To the left of the wind tunnel is Photographed yesterday with the the electrical substation, and to the pick and shovel, which were pre-right of the wind tunnel is the wind

to Clifford Gildersleeve, industrial tory, generally referred to as the test hangar. The other picture is the first to | The square structure at the top be released of the proposed layout of the photo is the service build-

running across the foreground is A \$306,000 contract for construc-Grayton Road on the far west side tion of the test hangar was award-

ed the R. P. Carbone Construction At the lower left is the adminis- Co. of Cleveland yesterday.

Air Experts, Here to Help Launch New Airport Lab. Call City Aviation 'Key'

BY RANDALE BROWN

Cleveland today was hailed by five top airmen-here to break ground for the \$8,400,000 aviation engine laboratory at Gleveland Airport—as a key force in America shattle to win world superfority in the air.

In Cleveland's new laboratory. e air men pointed out at a Cleveand Chamber of Commerce tuch-Hotel Cleveland American military and civil air-craft speed and nower many the world of wings today.

Heading the delegation was Major

General George H. Brest ecting chief of the Army Air Corps to whom the occasion was somewhat of a homecoming.

Son of W. H. Brett

General Brett is the son of Wil-liam Boward Brett, who for 35 years was Cleveland's librarian, and who was credited with building the

lf you wish a News de-live red daily at your home, call PR 4800.

library system up to one of the best in the country. The audience of 300 Cleveland business men and aviation parts manufacturers acknowledged General Brett's introduction with a rising ovation.

With the general were Captain Sydney M. Kraus of the Navy and three members of the National Advisory Committee for Aeronautics, Chairman Edward Warner, Secre-tary John F. Victory and Dr. George W. Lewis, research director.

"What we are doing here today," said Dr. Warner, "may mean the difference between America's survival and subjugation." He said the difference lies between such gero-nautical statistics as 1,000-horsepower motors or 1,800-horsepower motors, 340 miles an hour or 390 miles an hour, planes with four guns or planes with 12 guns, planes that can fly 20.000 feet up or those that can climb to 30,000 feet."

Presents Pick, Shovel

George Worthington, head of the hardware company bearing his name, presented a chromium-plated pick and shovel to Victory which was used later in the day at the airport ground-breaking ceremony,

Dr Warner said the Cleveland laboratory would be devoted in the development of more compact and higher-powered engines for new high speeds, to improvement of economy for long-distance distant and to increasing high altitude en gine performances and safety durability and reliability

The government officials were introduced by Fred H. Crawford, president of the chamber and president of Thompson Products, Inc., manufacturers of aviation engine parts. They were to be his guests at private dinner tonight at the Union Club.

Visit Two Plants

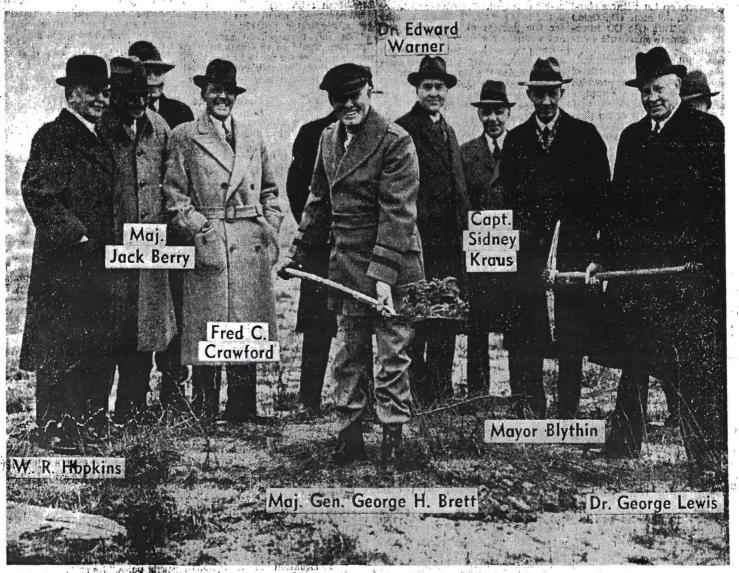
The Washington delegation visited the Cleveland plants of the Alu-minum Co, of America and the Cleveland Pneumatic Tool Co.

Guest of honor at the luncheon was William R. Hopkins, who. a city manager, was largely responsi ble for the establishment of Cleveland Airport in a way which would permit large expansion.

The laboratory will be built on the mammoth parking lot which formerly was used in connection with the National Air Races at the

urport.

Break Ground for Applane Laboratory Here



Maj. Gen. George H. Hett acting chief of the Air Corps is pictured above lifting the inst shovel of dirt in the groundbreaking ceremonies for the

Government's new airplane engine research laboratory at Cleveland Airport. Assisting him with the pick is Dr. George W. Lewis, director of research, Na-

tional Advisory Committee for Aeronautics. Others in the group, left to right, are: W. R. Hopkins, former city manager; Major

C. Crawford, president of the Chamber of Commerce; Dr. Edward Warner, Civil Aeronautics Board; Capt. Sydney M. Kraus, former city manager; Major Bureau of Aeronautics, U S Jack Berry, airport manager; F. Wayr and Mayor Edward Blythir

Says World's Finest Planes in Production

U. S. Aeronautic Aid Speaks at Laboratory Ground-Breaking

The finest airplanes in the world are on the production lines in the United States, Dr. George W. Lewis, director of aeronautical research for the National Advisory Committee for Aeronautics, said here today.

Dr. Lewis was one of the group of high ranking officials of Army and Navy air forces and governmental aeronautical agencies in Cleveland today from Washington to participate in a civic luncheon and groundbreaking ceremony for the Government's new \$8,400,000 airplane engine research laboratory at Cleveland Airport.

The visiting officials toured the Aluminum Corp. of America and the Cleveland Pneumatic Tool Co. before the Chamber of Commerce sponsored noon luncheon at Hotel Cleveland.

They inspected the B-19 landing gear strut under construction at the latter plant on E. 78th street for use in the world's largest bomber plane.

Foreign Edge Wiped Out

"Through efforts of our own research laboratories, we have today the finest planes in the world on our production line," Dr. Lewis asserted: "There was a difference in American and foreign ships, with the foreign ones having the edge in armor and armament, but that has been changed on the production lines.

"In our research work we are driving for speed and economy in fighting ships."

S. Paul Johnson, co-ordinator of research for the N. A. C. A. also said that this country was now producing planes "superior to any in the world."

Cleveland Press: January 23, 19414

Bring Equipment At the noon luncheon. said that the of the end material from Langley ginia, would be moved to land's "finest laboratory world."

"Engine research is the chief tor, in development of military

ation today," he added.
Maj. Gen. George H. Breit ohief of the U. B. Almy An ad that it costs \$2,000,000 gineering research to the

Maj. Brett expressed the that England has been maintaining quality is its military planes in a name of quality again products the control of th

Watner of the C

remor between free and susjugation is the difference tween 400 miles per hour and miles per hour, the difference tween flying as 20,000 cert in 20,000 feet; the difference sources 20 girls and for a child source of the contraction of the co

Mr. Crawford said the new labor-breaking ceremony.

atory would be a "real asset to aviation in the present defense pro-were Capt. Sidney Kraus, Bureau

the aviation industry, Cleveland will Kemper, in charge of engine rebecome even more so on completion search at Langley Field, Va. the laboratory," he said.

Selected On Merits

John A. Victory, secretary of the ional Advisory Committee for Aeronautics, was presented with a shrome-plated pick and shovel which later used to break ground for he new laboratory

The presentation was made by George Worthington, grandson of the original founder of the George Worthington Co.

Tre C. Orawford, president of the Mr. Victory said. "It was the best Chamber of Commerce, presided at location because of its accessibility the luncheon. A welcome address to the engine and tool industry." was delivered by Mayor Edward Bly- Following the luncheon the group went to the airport for the ground-

Among the other visiting officials gram and in the future development of Aeronautics, U. S. Navy; Col. Donald H. Connelly, administrator Donald H. Connelly, administrator Already, an important center in of Civil Aeronautics, and Carlton

[63] | Ju Producti

U. S. Aeronautic Ad-

visor Speaks at Laboratory Ground-Breaking

Pictures on Page 14

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Sollowing today's innoheon, the group wast to the airport for the distant breaking coreasant. letracking career

Among the visiting utherials Mai, Gen. George R. Brett, a dief of the U. R. Army Air C. Gept. Science Kraus. Bureau of indiction. U. R. Many; John F. Vinduretary of the Rational Advocation for Assessmentics; Dr. Ward Warner of the Civil Acretics Authority.

Warti Warrier of tics Authority.
Gol. Donald H. Connelly, administrator of Civil Aeronautics, and Carlton Kamper, in charge of engine research at Langley Field, Va.

Attend Air Lab Party

Below are pictured some of the men who played a prominent part in the civic luncheon at Hotel Cleveland sponsored by the Chamber of Commerce in conjunction with ground-breaking ceremonies for the new airplane engine research laboratory at Cleveland Airport. Maj. Gen. Brett, a native Clevelander, is acting chief of the U. S. Army Air Corps. Mr. Crawford is president of the Thompson Products Co. and head of the Chamber. Dr. Lewis is director of aeronautical research of the National Advisory Committee for Aeronautics. Mr. Hopkins is former city manager of Cleveland and the man who made possible Cleveland Airport. Dr. Warner is associated with the Civil Aeronautics Authority. Mr. Victory is secretary of the N. T. C. A. Mr. Kemper is in charge of engine research at Langley Field, Virginia. Capt. Kraus is with the Bureau of Aeronautics, U. S. Navy.

Cleveland Press, January 23, 1941



Clevelar Fress, Jan. 23, 1941

Says U. S. Producing maintaining quality construction in maintenance of quality against production hance of quality against production World's Best Planes Germany and England," he said.

The finest airplanes in the world are on the production Aeronautics Authority told the large lines in the United States, Dr. George W. Lewis, director of crowd: aeronautical research for the National Advisory Committee "The difference between freedom

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Bring Equipment

cinia, would be moved to Cleve-

Engine research is the chief fac-

actual development of an engine:

"finest laboratory in the

land Airport The visiting officials toured Aluminum, Corp. of America the Cleveland Pneumatic Too

before the Chamber of Cree erien and the second gear strut under construction at

latter plant on E. 78th street for in the world's largest bomber pla "Through efforts of our own search aboratories, we have to the finest planes in the world on

production line," Dr. Lewis asser There was a difference in Ame

and foreign ships, with the for ones having the edge in armo

Represents Freedom

Maj. Brett expressed the opinion

for Aeronautics, said here to the Dr. Lewis was one of the group high ranking officials of Army air forces and governments are an activic luncheor and group breaking ceremony for the Government's new \$8,400,000 airplane.

The difference between 1 reedom and subjugation is the difference between 400 miles per hour; the difference between 100 miles per hour; the differ

gine research laboratory at Clare research for the N. A. C. A. also said chamber of Commerce, presided at et this country was now producing luncheon. A welcome address delivered by Mayor Edward Bly-

wanes "superior to any in the world." Mr. Crawford said the new laborat the noon luncheon. Dr. Lewis story would be a "real asset to avisaid that all of the engine research gram and in the future development material from Langley Field, Vir-

of commercial aviation."

Already an important center inthe aviation industry, Cleveland will become even more so on completion of the laboratory," he said. Selected On Merits

for in development of military avi-ation today," he added. John A. Victory, secretary of the Maj. Gen. George H. Brett, acting National Advisory Committee for chief of the U. S. Army Air Corps, Aeronautics, was presented with a seld that it costs \$2,000,000 for engineering research to the point of chrome-plated pick and shovel which was later used to break ground for the new laboratory. The presentation was made by

George Worthington, grandson of

the original founder of the Geor-Worthington Co. "Cleveland was selected c merits as the site of this r Mr. Victory said. "It was location because of its a to the engine and to Following the lund went to the airport breaking cereme

Among the o were Capt. F of Aeroneu Donald of Civi Ker-

Another Citadel of Defense Is Started



"Many an army rookie would like to see this," said Frederick C. Crawford (left), president of the Cleveland Chamber of Commerce, as Maj. Gen. George H. Brett, acting chief of the army air corps, wielded a shovel at ground-breaking ceremonies on the site of the aviation engine research laboratory at Cleve-

land Airport yesterday afternoon. In the picture are (left
to right). Crawford; former
City Manager William R. Hopkins; E. R. Sharp, laboratory
construction administrator; Maj.
John Berry, airport manager;
Gen. Brett; S. P. Johnson, research co-ordinator for the National Advisory Committee for
Aeronautics; Mayor Edward

Blythin; Dr. E. P. Warner, chairman of the N. A. C. A.; Dr. George W. Lewis (with pick), N. A. C. A. director of research, and Capt. S. M. Kraus, in charge of navy procurement.

SHOVEL FIRST DIRT FOR NEW AIR LAB

U. S. Aviation Chiefs Take Part in Ceremony

BY JAMES D. HARTSHORNE

While the contractor's equipment stood by waiting the word to start making the dirt fly, ground was broken at Cleveland Airport late yesterday in a ceremony marking the actual start of construction of the federal government's \$8,400,000 aviation engine research laboratorv.

Maj. Gen. George H. Brett, acting chief of the army air corps and a former Clevelander, turned the first shovelful of earth after Dr. George Wo Lewis, director of research for the national advisory committee for aeronautics, had loosened the muddy soil with a pick:

The first unit of the research center, an engine test hangar, will soon begin to take shape. Construction of other buildings will be started within a few months.

At a luncheon preceding the airport ceremony, held in Hotel Cleveland under the auspices of the Cleveland Chamber of Comerce, the research center was described by Gen. Brett as of "tremendous importance to military aviation."

"Much has been said about quality as opposed to production," Gen. Bett said. "England has maintained quality as against production. A comparison of the air casualty rates of Britain and Germany revolves around the question of quality. Quality is built on research.

"The War Department asks the

zens of Cleveland in seeing that this research laboratory accomplishes its mission."

Dr. Edward P. Warner, chairman of the N. A. C. A., the government agency which will operate the laboratory, told the luncheon audience that the basic reason for the laboratory was that "the consequences of the work done here may mean continuance of our ability to exist." -

Indebted to Researchers

"In Great Britain now, as it would be in the United States under like circumstances, the debt is not only to those who battle in the air, but also to those who produce and who carry on research," Dr. Warner "The-laboratory, however, is said. not merely concerned with military problems. Every job undertaken i relation to defense will be useful in commercial aviation."

The research laboratory, Dr. Lewis said, will be "the finest if the world" and will be "a most important factor in the further development of military and commer-

cial aviation."

Other speakers, including Capt Sidney M. Kraus, chief of navy brocurement, and John F. Victory, secretary of the N. A. C. A., said the selection of Cleveland Airport from among the 72 sites offered by 6 cities, had been strictly on mer and was a compliment to the fa cilities available here and to th diversity of Cleveland's industries

Site Best Offered

"Cleveland's site was the best of fered us," Victory said. "This location also was the most accessible to the engine industry, while your community offered us everything we wanted without going beyond the borders of the city.

"You can take pride in the fact that politics or pressure had noth ing to do with selection of the site

Frederick C. Crawford, president of the Chamber, pledged the government officials the fullest co-operation on the part of the city and its industries in the work of the laboratory.

William R. Hopkins former city greatest co-operation from the citi- manager of Cleveland, was intro-duced by Crawford as the man whose foresight "secured us the fine airport we have today and who got us Maj. Jack Berry, manager of that airport."

OBLIGATION ON CLEVELAND

P. EDWARD WARNER reminded its yesterday that our national existence may depend on our ability to produce a better aircraft engine than our potential enemies can produce.

Dr. Warner is director of aeronautical research for the National Advisory Committee for Aeronautics. He was speaking at the luncheon preceding the breaking of ground on the Government's new air engine laboratory at the airport.

It was an impressive occasion, with an important group of the company's foremost technicians and research men at the speaker's table, along with Cleveland, form Mail Gen. George H. Brett, commander, of the Army Air Corps, and others.

Several members of the N. A. C. A. explained how Cleveland had been selected for the great new airplane engine laboratory. Pressure and politics played no pain their decision. It was made solely on the merits of our geographical and industrial situation. The concentration of manufacture related to airplane part production and our general industrial diversity were leading considerations.

The confidence shown in this community by the National Government imposes serious obligations on the members of the community.

refer C. Crawford, president of the Chamber of Commerce, urged Cleveland manufacturers to make good his assurances that they would produce for the laboratory anything if needs more promptly, more cheaply, more accurately and more satisfactorily than it can be produced anywhere else.

This is a sizeable undertaking, but Cleveland industry should, so far as it is able, perform it.

Above—The 25-(oot 33,1000,000 wind tunnel to be will here to simulate stratosphere conditions will fook like, this one at Langley Field. Virginia, which is 19 feet across. Left—Giant electric fan for creating hurrican e

New Aircraft Laboratory Here Will Tackle Knotty Problems Now Baffling Research Engineers

By Lowrence J. Howkins

MERICA wants a fighting plane for combat in the frigid, cloudless spaces of the sub-stratophere.
An engine to drive such a planer at 400 to 500 miles an hour is a primary objective of the \$8.400,000 research laboratory under construction just west of the airport here for the National

An engine to drive such a planer at 400 to 500 miles an hour is a privary objective of the \$3.40,000 research laboratory under construction just west of the airport here for the National Advisory Committee for Aeronautics.

The war in Europe Gody is a the high attitude war, and it is going higher. Bombers and their body good of the properties of the second place o



Dr. George W. Lewis (left) director of all aeronautical research for the National Advisory Committee for Aeronautica, talks it over with Edward R. Sharpe, construction administrator, who will remain in Cleveland as the laboratory administrative officer

1,000 a month.

The great advantage of the liquidcouled, in-line engine is that it is
no wider than the pilot's shoulders.

course, in-time region of their its monitoring monitoring the plane to be stream-inned from the plane to be stream-inned from their except of the country of the country except the persons who produced by know more about the relative sorting of the stream of the country except the persons who produce about the relative sorting of the two types than anything one else. The $N \wedge C \wedge A$ and its exactly mon have been stream on the two types than anything the stream of the stream

revolutionary it is, the more closely guarded a servest it will be.

Nor should Clevelanders finds upon the air lab as an interesting alphasering place to take their Palinesville continus when they come to town. During the present world energoner, at least, no visitors will be allowed.

The laboratory is located on a The laboratory is located on a 200-acre site nouthwest of the old National Air flaces grand stand and is bounded on its western extremity by Metropolitan Park Go unit to three once wide open spaces any work day now and you will find it awarming with co-subtraction crews. First of the five buildings

it maranding with construction to be started in "Title," which Construction Administrator Edward in Shaper and the Construction Administrator Edward in Shaper and Construction Administrator Edward in Shaper and Construction in August or before.

Next is the engine peop test bouse, then the errore building which will bouse all the technical control of the Construction of the Construct

present defittion or community, in min of the two or with the way of host-thing appeal in the property of the way of the reduction of 21 pounds of the property of the reduction of 21 pounds of the present and a way to reduce the reduction of 21 pounds of the present and the present of the way of host-thing appears to except four more passengers.

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