

The Untold Story of the Carnegie *Diplodocus*

Mike Taylor^{1,*}, Matt Lamanna², Ilja Nieuwland³,
Amy Henrici², Linsly Church², Steve Sroka⁴ and
Ken Carpenter⁵

1. University of Bristol, Bristol, UK
2. Carnegie Museum of Natural History, Pittsburgh, PA, USA
3. Royal Netherlands Academy of Arts and Sciences, Netherlands
4. Utah Field House of Natural History, Vernal, Utah, USA
5. University of Colorado Museum, Boulder, Colorado, USA



The
sauropod
dinosaur
Diplodocus

Best known
from the
Carnegie
specimen
“CM 84”



... And its
many casts





Casts were sent around the world in the early 1900s.

Natural History Museum	London	England	12 May 1905
Museum für Naturkunde Berlin	Berlin	Germany	13 May 1908
Muséum National d'Histoire Naturelle	Paris	France	15 June 1908
Kaiserliches und königliches naturhistorisches Hof-Museum	Vienna	Austria	24 September 1909
Giovanni Capellini Museum for Paleontology and Geology	Bologna	Italy	27 October 1909
The Imperial Museum	St. Petersburg	Russia	Early July 1910
Museo de La Plata	La Plata	Argentina	1912
Museo Nacional de Ciencias Naturales	Madrid	Spain	2 December 1913
Museo de Paleontología (UNAM)	Mexico City	Mexico	1930
Staatssammlung für Paläontologie und Geologie	Munich	Germany	1934 (never mounted)



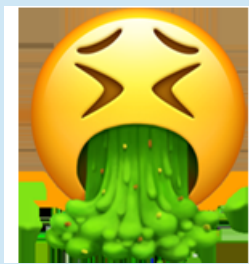


“Dippy”





“Dippy”



How I accidentally became an expert on this specimen

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Brigham Young University
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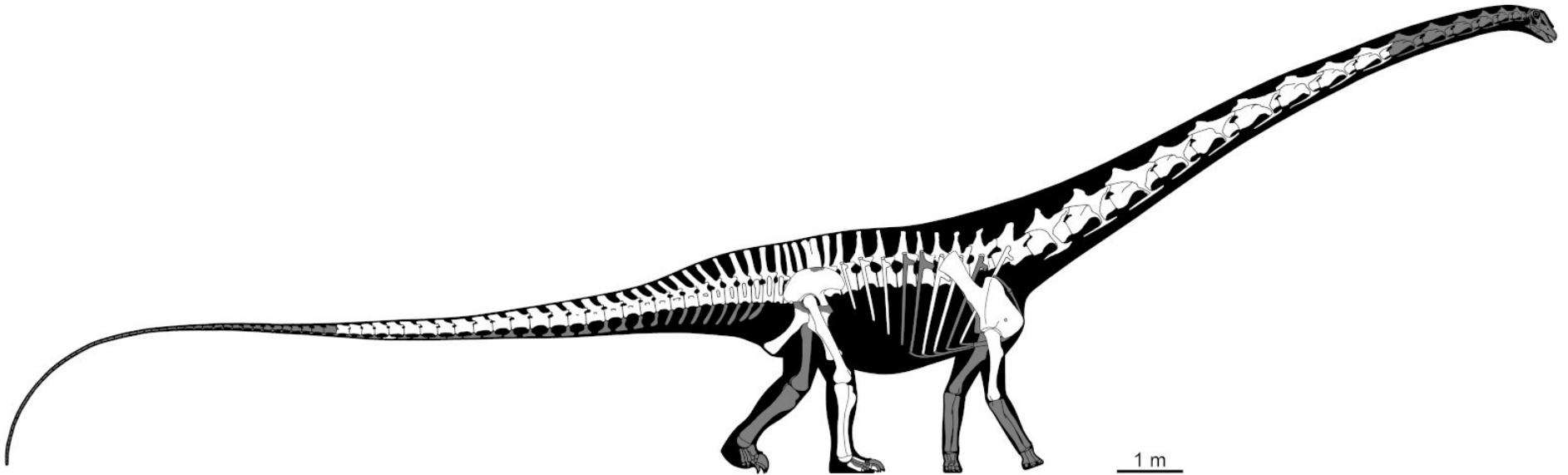
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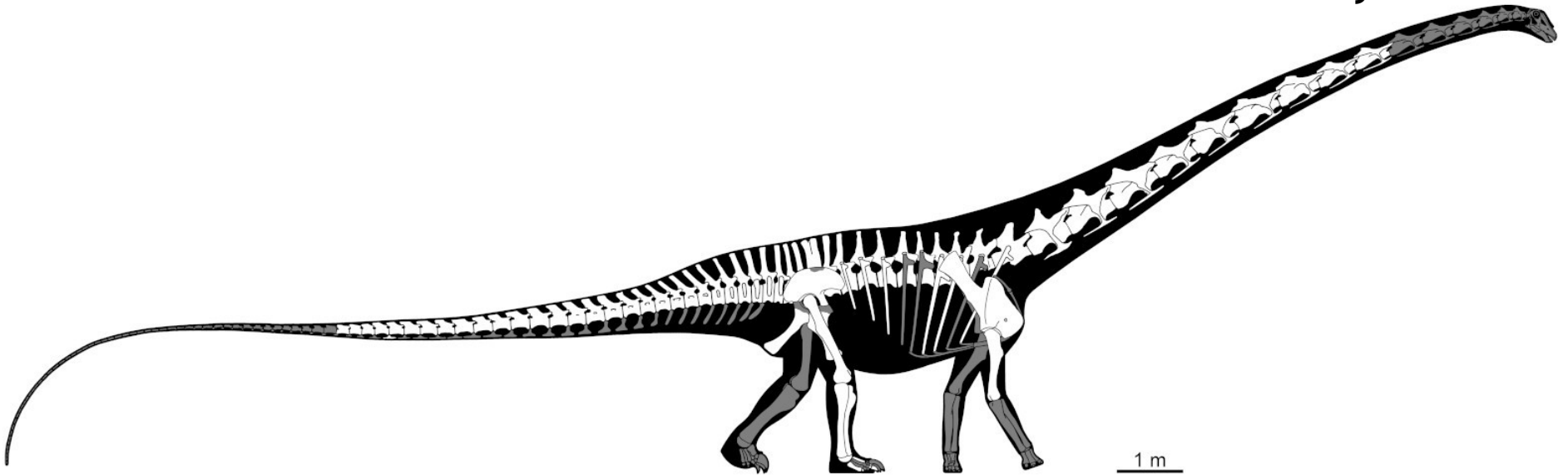
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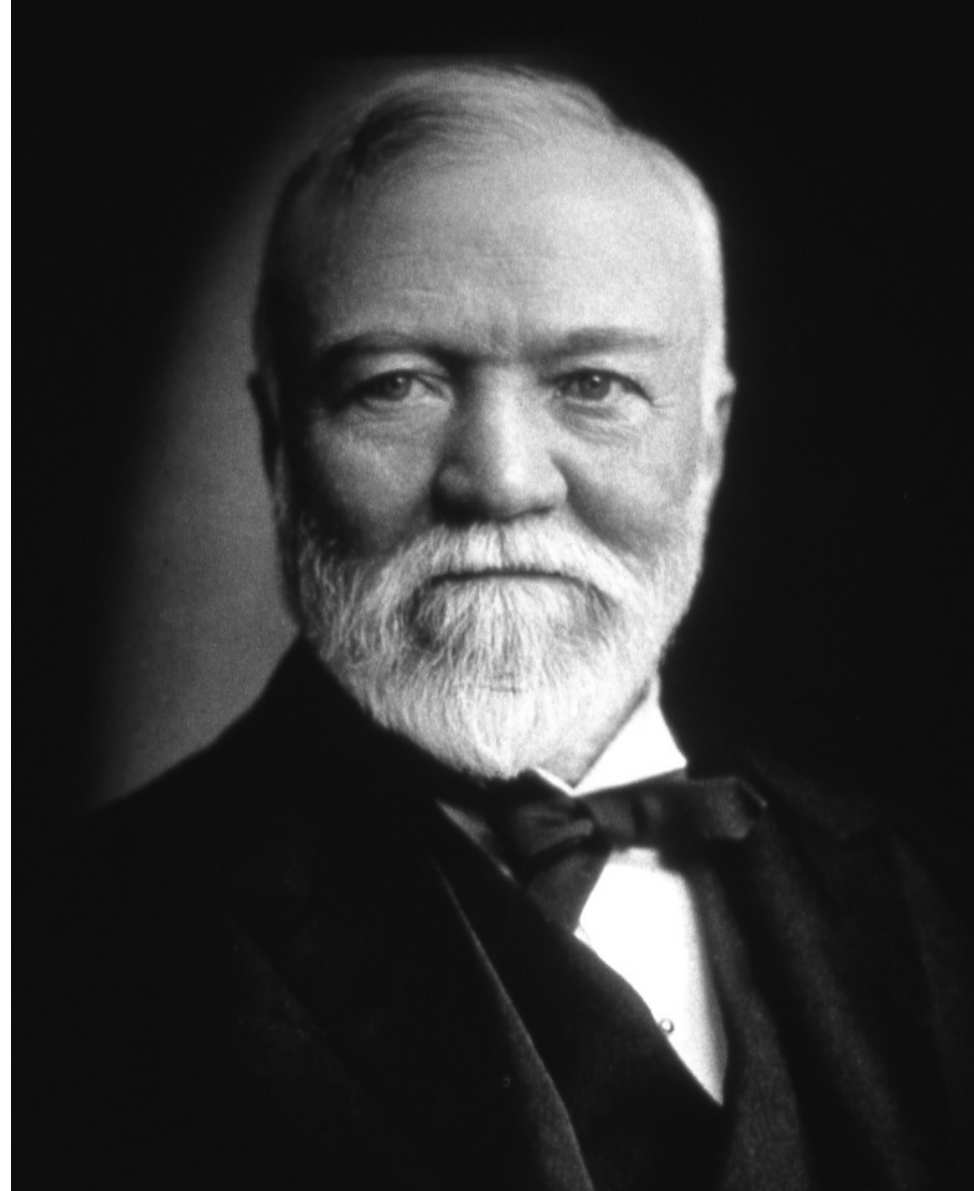
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Meet Andrew Carnegie

Steel magnate in late 1800s.

One of the richest people in the world.

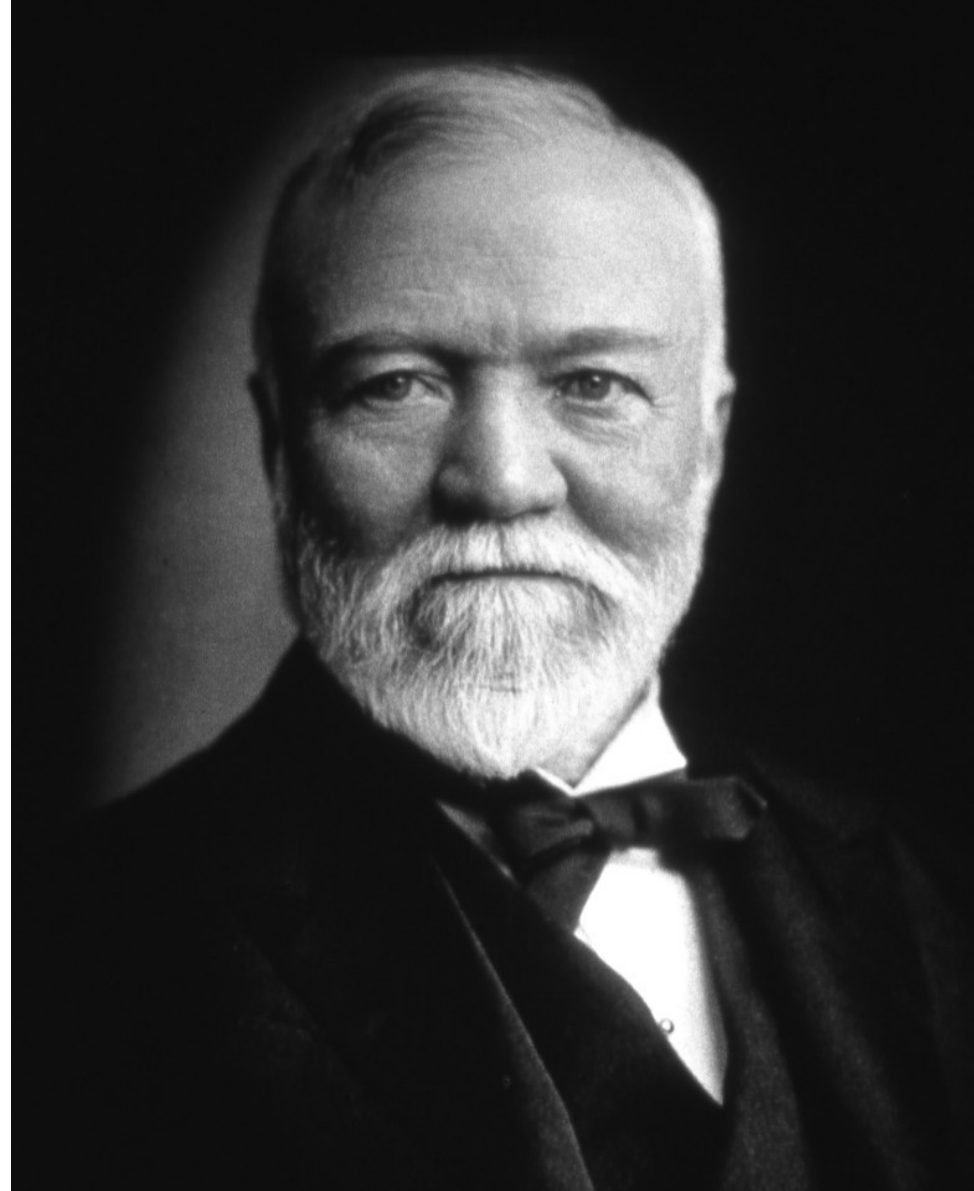


Meet Andrew Carnegie

Steel magnate in late 1800s.

One of the richest people in the world.

Became concerned about his legacy.
In early 1900s, gave away 90% of wealth.





The Carnegie Museum of Natural History Pittsburgh, Pennsylvania

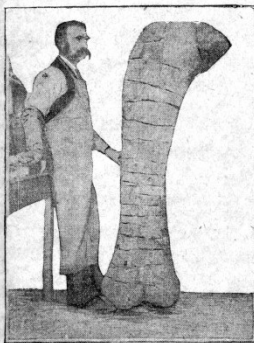
Anonymous 1898b

New York Journal
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MOST COLOSSAL ANIMAL EVER ON EARTH JUST FOUND OUT WEST.

Discovery in Wyoming of the Remains of a Gigantic Brontosaurus, the Most Stupendous Thing Ever Alive—130 Feet in Length, with a Tail 60 Feet Long, Height 45 Feet, and Big Enough Inside to Hold 40 Men.
(Copyright, 1898, by W. R. Hearst)



Photograph of the 8-Foot Thigh Bone of the Monster Discovered in Wyoming.

THE largest creature that has ever been known to walk the earth has been discovered in Wyoming.

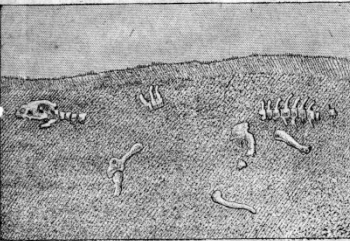
It is a Brontosaurus, a reptile belonging to the extinct order of Dinosaurs, which occupied the earth long before man appeared.

This Brontosaurus was 130 feet in length and weighed probably 120,000 pounds.

Its discoverer is Professor W. H. Reeder, of the Wyoming State University. That State is the greatest burial ground of Dinosaurs in the world.

When the Brontosaurus walked, the earth trembled. One man cannot lift its smallest bone. Its petrified skeleton weighs 40,000 pounds. Forty persons could be seated with comfort within its ribs.

Standing on its hind legs it could have measured a hundred feet in height and could have looked into the eleventh story window of the New York Life Insurance building.



Fossilized Bones of Brontosaurus as Found in Alluvium.

NOTE this earth was peopled almost exclusively by reptiles. Some of them were so gigantic that their size would make a modern elephant look like a mouse.

The most gigantic of all these gigantic creatures has just been discovered in Wyoming. It is a Brontosaurus, belonging to the order of Dinosaurs. Its length from head to tail in life must have been 130 feet, and its weight 120,000 pounds. It was the greatest creature that is known to have ever lived.

When It Walked the Earth Trembled Under Its Weight of 120,000 Pounds.

When It Ate It Filled a Stomach Large Enough to Hold Three Elephants.

at Brontosaurus, the greatest animal that ever lived, as he appeared when he came to the earth to tremble.

Brontosaurus was 130 feet in height at the hips and 25 feet at the shoulders. Its smallest bone is too great for one man to lift.

Professor Reeder calculates that in life it weighed about 120,000 pounds. Its fossil remains weigh more than 40,000 pounds. Its thigh bone is eight feet in length. Its ribs are each nine feet in length and the space within them is thirty-four feet in length, sixteen feet in width and twelve feet in height. The joints of its backbone are sixteen inches across the center.

When Brontosaurus stood on its hind legs, which it frequently did, in order to look over the landscape, its head was about one hundred feet in the air. At this rate it could have looked in at the eleventh story of the New York Life Insurance building.

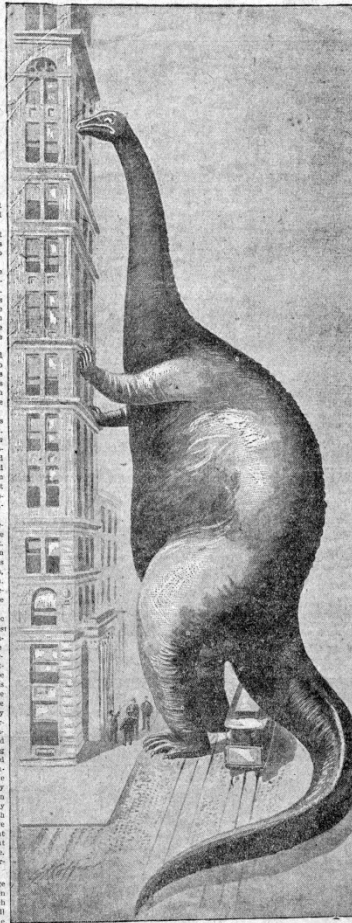
Brontosaurus could have walked across the North River and merely wet its feet. The largest fossil remains hitherto known to exist were those of the Brontosaurus restored by Professor Marsh and now in Yale University. It was also found in Wyoming and created a great sensation in the day. It measures only seventy feet or little more than half the new Brontosaurus and in life must have weighed 40,000 pounds less than that animal.

Brontosaurus lived in the Mesozoic period, when reptiles almost monopolized the earth. They were the people, so to speak. That was millions of years before man appeared on the earth. The Mesozoic is the second of the great geological periods, starting from the creation of the earth. Before the reptiles appeared only invertebrate animals and fishes occupied the earth.

These reptiles were in shape fantastic beyond the wildest conception of the imagination. They were mostly quite different from any existing reptiles. Some looked like hideous caricatures of the animals of the present day. Many of them were armed with enormous bony plates and great spines along the back and around the head. Such creatures could not have been demolished by anything less than heavy artillery. They had jaws in which they could have crushed an elephant as easily as a cat crushes a mouse. Many were carnivorous.

There is a strange similarity between the dragons which are found in the primitive legends of all nations and the prehistoric reptiles. The suggestion has been made that some of the monsters were really men, but although this is discounted by science, there remains a mystery which is far from solved.

Among these monsters Brontosaurus, though the largest, was far from being the most formidable. Probably its carcass furnished



(Drawn from a Picture of a Member of the Same Family in Hatcher's "Creatures of Other Days." Copyright, 1894, by D. Appleton & Co.)

How the Brontosaurus Giganteus Would Look If It Were Alive and Should Try to Peep Into the Eleventh Story of the New York Life Building.

When It Was Angry Its Terrible Roar Could Be Heard Ten Miles.

When It Stood Up Its Height Was Equal to Eleven Stories of a Sky-Scraper.

nished food to its voracious and cantorous neighbors. It had neither arms, eyes nor great jaws.

The remarkably small head is indeed one of the most striking features of Brontosaurus, and presents a curious contrast to the huge and formidable skulls possessed by some other forms. But it is clear that an animal with such a long neck as this creature could have borne the weight of a heavy skull. Short, thick necks and heavy skulls always go together. Indeed, the weight of the long neck itself would have been serious had it not been for the fact that the vertebrae in this part of the skeleton, and as far as the region of the tail, have large cavities in the sides of the centra.

This cavernous structure of the vertebrae gradually decreases toward the tail. The cavities communicate with a series of lateral cavities, which give a kind of honeycombed structure to the whole vertebrae. This arrangement affords a combination of strength and lightness in the massive supports required for the large ribs, limbs and muscles which as could not have been supported by any other plan. The body of Brontosaurus was consequently short, with a fairly large pouch. The legs and feet were strong and massive, and the limb-bones solid. As it partly to balance the neck, we had a long and powerful tail, in which the vertebrae are nearly all solid.

In lost Dinosaurs the fore-limbs are small compared to the hind limbs. It is hardly possible that Brontosaurus walked on its hind legs, as many of the Dinosaurs did. But, at the same time, we may believe that occasionally it assumed a more erect position, and the first indicated structure of the vertebrae in the fore part of the body may have imparted much lightness as made it possible for the creature to maintain such attitudes.

There can be little doubt that many other three and four-toed Dinosaurs were living at the same time and in the same region with Brontosaurus. How this apparently bold and awkward animal composed in the struggle for existence it is not easy to conjecture; but since there is reason to believe it was more or less at home in the water, and could use its powerful tail in swimming, we may perhaps find a way out of the difficulty by supposing that, when alarmed by dangerous food-eating feet, it took to water and found discretion to be the better part of valor. Although presumably stupid, Brontosaurus probably possessed some cunning, and we can fancy it stretching its long neck above rocks, ferns and crystals to get a view of the approaching creature.

The sight of a food-eating creature dining off a gigantic Brontosaurus must have been truly food curdling. The greatest student of Dinosaurs is Professor Marsh, of Yale. From 1871 until 1888 he had field parties continually at work in Wyoming. During the greater

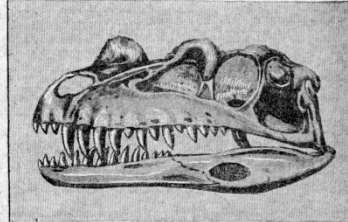


Footprints of the Brontosaurus a Yard Square Found in the Solid Rock.

part of this work was in charge of Professor Reeder, who is the discoverer of all of the largest Dinosaurs known. In the summer of 1894 the University of Wyoming began work in the field to secure a complete collection of fossil remains of these great animals. During the past three years Professor Reeder has spent his entire summers in this work of collection, with the result that he has brought to the Western University more than fifty tons of the bones of these huge reptiles.

His recent discovery is believed to be the university's collection of reptilian fossils the greatest in the world. The Wyoming fossil beds, as far as is known, are confined to Albany and Carbon counties, in the south central part of the State. The bones are usually found in banks of clay or marl, but occasionally in beds of sandstone. It is not an unusual thing to find a bone bed four or five feet in thickness, with the bones so close together and so mixed up that it is almost impossible to take them out and restore them to a natural place in the body.

At one time in its history Wyoming had numerous fresh water



Skull of the Brontosaurus in Wyoming.

lakes and a climate that was semi-tropical. At this time the Dinosaurs are believed to have inhabited these lakes and swamps in winter. The animals sank into the mud when they died and their bones were covered over by other deposits and became petrified. The large fossil beds are found where, at one time, are supposed to have been the mouths of great rivers. The animals after death floated down these rivers, whence they were deposited in these strata, thus accounting for the vast numbers of bones and vertebrae continually deposited in certain places. It is believed that in the course of geological ages these animals became covered with perhaps 20,000 feet of rock. The

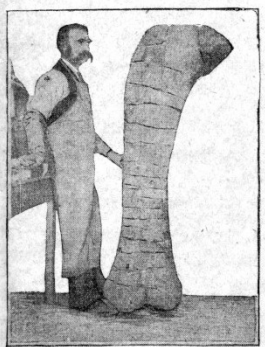
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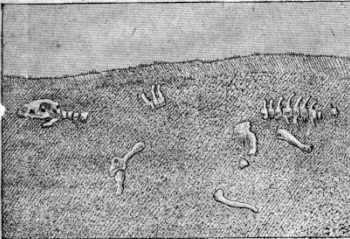
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When the Brontosaurus walked, the earth trembled. One man cannot lift its smallest bone. Its petrified skeleton weighs 40,000 pounds. Forty persons could be seated with comfort within its ribs.
Standing on its hind legs it would have measured a hundred feet in length and could have looked into the eleventh story window of the New York Life Insurance building.



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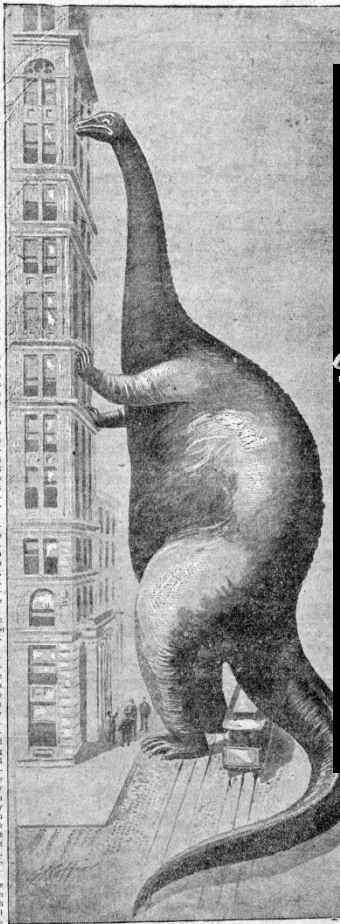
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Brontosaurus was 25 feet in height at the hips and 35 feet at the shoulders. Its smallest bone is too great for one man to lift.
Professor Reeder calculates that in life it weighed about 120,000 pounds. Its fossil remains weigh more than 40,000 pounds. Its thigh bone is eight feet in length. Its ribs are each nine feet in length and the space within them is thirty-four feet in length, sixteen feet in width and twelve feet in height. The joints of its backbone are station inches across the center.
When Brontosaurus stood on its hind legs, which it frequently did, in order to look over the landscape, its head was about one hundred feet in the air. At this rate it could have looked in at the eleventh story of the New York Life Insurance building.
Brontosaurus could have walked across the North River and merely wet its feet. The largest fossil remains hitherto known to exist were those of the Brontosaurus restored by Professor Marsh and now in Yale University. It was also found in Wyoming and created a great sensation in the day. It measures only seventy feet or little more than half the new Brontosaurus and in life must have weighed 40,000 pounds less than that animal.
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There is a strange similarity between the dragons which are found in the primitive legends of all long-necked shore birds, ferns and cycads. The suggestion has been made that some of the monsters survived until in recent ages of man, but although this is discounted by science, there remains a mystery which is far from being solved.
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Skull of the Brontosaurus in Wyoming.

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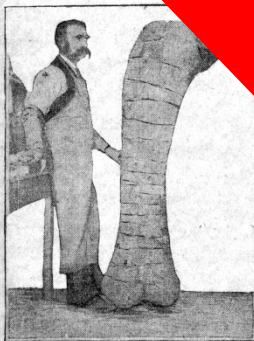
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Brontosaurus lived in the Mesozoic period, when reptiles almost monopolized the earth. They were the people, so to speak. That was millions of years before man appeared on the earth. The Mesozoic is the second of the great geological periods, starting from the creation of the earth. Before the reptiles appeared only invertebrate animals and fishes occupied

These reptiles were in shape for



(Drawn from a Picture of a Member of the Same Family in Hutchinson's "Crimes of Other Days." Copyright, 1894, by D. Appleton & Co.)

and carnivorous
neither armor.

...small head is indeed...
...features of Brown...
...a curious contrast...
...and formidable skulls poss...
...some other forms. But it i...
...animal with such a long ne...
...creature could have borne the...
...of a heavy skull. Short, thick...
...and heavy skulls always go together...
...need, the weight of the long neck itself...
...would have been serious had it not been...
...for the fact that the vertebrae in this part...
...of the skeleton, and as far as the region o...
...of the tail, have large cavities in the sides o...

This cavernous structure of the vertebrae gradually decreases toward the tail. The cavities communicate with a series of internal cavities, which give a kind of honeycombed structure to the whole vertebrae. This arrangement affords a combination of strength and lightness for the massive supports required for the large ribs, limbs and muscles such as could not have been provided by any other plan.

"The body of *Brontosaurus* was comparatively short, with a fairly large nape. The legs and feet were strong and massive, and the limb-bones solid. As if partly to balance the neck, we find a long and powerful tail, in which the vertebrae are nearly all solid.

In Lost Dinosaur the fore-limbs are small compared to the hind limbs. It is hardly possible that Brontosaurus walked on its hind legs, as many of the Dinosaurs did. But, at the same time, we may believe that occasionally it assumed a more erect position; and the light hollow structure of the vertebrae in the fore part of the body may have imparted such lightness as made it possible for the creature

... can be little



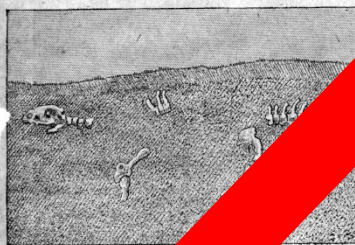
Footprints of the Brontosaurus a Y
Square Found in the Solid Rock

part of the period this work was in charge of Professor Reeder who is the discoverer of all of the largest Dinosaurs known.


In the Summer of 1894 the University of Wyoming began work in the field to secure a complete collection of fossil remains of these great animals. During the past three years Professor Reeder has spent his entire Summers in this work, with the result that he has brought to the University more than fifty tons of the bones of these reptiles.

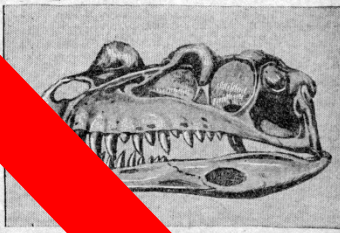
His recent great discovery is believed to make the universe collection of reptilian fossils the greatest in the world. Wyoming fossil beds, as far as is known, are confined to Al and Carbon epochs, in the south central part of the State. The bones are usually found in banks of clay or marl, but occasionally in beds of sandstone. It is not an unusual thing to find a bone bed four or five feet in thickness, with the bones close together and so mixed up that it is almost impossible to take them out and restore them to a normal place in the body.

At one time in its history Wyoming had numerous fresh water



Fossilized Bones of Brontops in Alluvial Gravel


 NCE the earth was covered by reptiles. Some of these reptiles were like a mouse. The most gigantic of the gigantic creatures has just been discovered in Wyoming. It is a Brontosaurus, belonging to the order of Dinosaurs. Its length from head to tail in life must have been 100 feet, and its weight 120,000 pounds. It was the greatest creature that is known to have ever lived.

Skull of *Tyrannosaurus* in Wyoming.

pressed some anxiety in stretching its fins and eyes to the horizon. In the upper reaches of the river, where the water is still, the animals are seen to be swimming with their heads above water, and their eyes and fins are visible. In the lower reaches, where the water is fast, the animals are seen to be swimming with their heads below water, and their eyes and fins are visible. In the lower reaches, where the water is fast, the animals are seen to be swimming with their heads below water, and their eyes and fins are visible.

Anonymous 1898a

New York Post

1 December 1898.

POST: NEW YORK, THURSDAY, DECEMBER 1, 1898.

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Wyoming is writing a strange chapter in the world's geological history. The big sage brush commonwealth is scoring a record-breaker in fossil formations by unearthing the petrified bones of the most colossal animal ever taken from the earth's stratas. This stone monster was a dweller in the Jurassic age—a dinosaur, measuring nearly 130 feet in length, and being perhaps 35 feet in height at the hips and 25 feet at the shoulders—an animal so terrible in size that its petrified skeleton alone is believed to weigh more than 40,000 pounds.

Assistant Prof. W. H. Reed of the department of geology of Wyoming State University is its discoverer. He made the great find while prospecting for fossils ninety miles northwest of Laramie last August; and since that time the geological department of the university has been secretly at work in its restoration. So vast is the skeleton of the animal that its smallest bone yet found is more than a man can lift, and with two men in the field constantly at work it is believed that many months may be required before the monster can be placed on the campus at Laramie.

In comparison to a mammoth, this animal was in size as a horse is to a dog. In the known fossil world there is but one creature that can ever serve in an approximate comparison with it, and this would be only as a child beside it. Prof. O. C. Marsh's famous brontosaurus at the Yale Museum at New Haven is its only animal criterion of measurement. This was a creature of its own kind and time—a fellow creature in Wyoming, where for millions of years they have slept together in the same graveyard to be finally resurrected by the same ghoul of science—Prof. Reed. The skeleton at Yale was restored in 1879 by Prof. Reed, under the direction of Prof. Marsh.

This monster is believed to have been about 70 feet in length, and in life to have weighed, perhaps, 80,000 pounds; the new discovery in Wyoming eclipsing it in this respect by probably more than 40,000 pounds. This animal was perhaps 25 feet in height at the hips and 16 feet at the shoulders. Its femur alone is slightly more than 6 feet

in length, while the femur of the animal now being resurrected is nearly or quite 8 feet in length. A measurement of its lumbar vertebrae across the centrum is 13 inches, while a corresponding vertebra of the fossil recently discovered is over 16 inches in similar measurement. From the bones disinterred, the dinosaur in Wyoming, in comparison to the one at Yale, is in size about as three is to two.

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Pieces, Toilet

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Bon-Bon Dish
Hair Brushes,
Bonnet Brush
Powder Boxes,
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Salt Bottles,

B. Altman

Will offer on Secor
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Publication.

STERLING Tea, Coffee Tea Caddies, Sticks, N. T. Pieces, Tiles

Cut Glass B. Sterling Silver, Berry Bows, Claret Jug, Bon-Bon Dish, Hair Brushes, Bonnet Cushions, Powder Boxes, Glove Stitches, Salt Bottles,

B. Altman

Will offer on Second a number of Garm

MISSEY TAIL SUITS of Chevic Blue or Brown at

Of Venetian in Brown

CHILDREN'S FROCK mere, Mixtures of Rou 6 to 12 years.

SEPARATE SKIRTS tures and plain colors in styles from \$5.50 to

VELVETEEN WAIST or Po ka-Dot, rich coloring

REEFERS of Blue or Chevic, Sat'n facing,

REEFERS of Kersey C chill or Chevic, plain or med entirely Silk lined,

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*My Lord - Can't you buy this for Kilsbaph - try
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Anonymous 1898a

AY, DECEMBER 1, 1898.

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My Lord — Cant you buy this for Pittsburgh — try Wyoming State University isnt rich — get an offer— hurry AC

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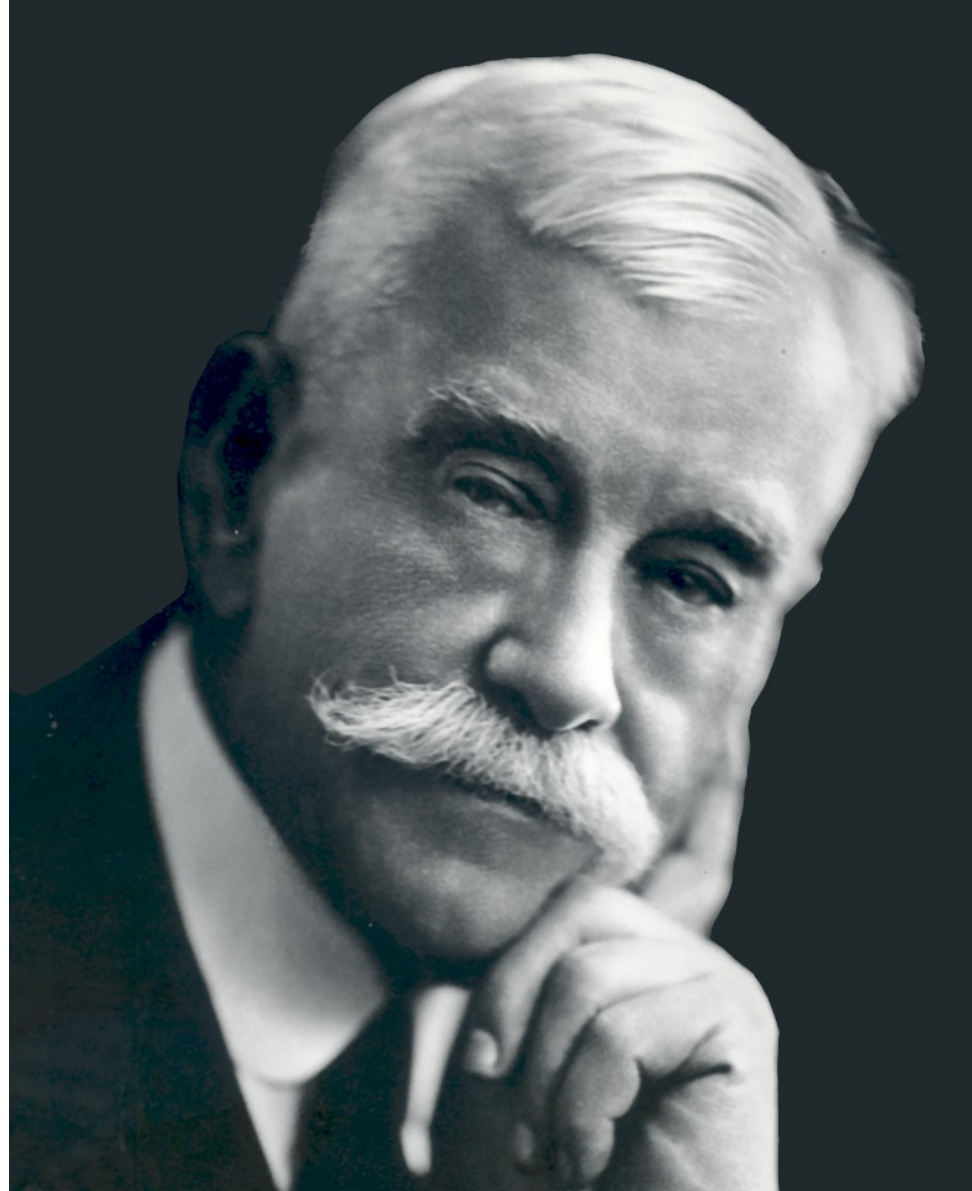
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Meet William J. Holland

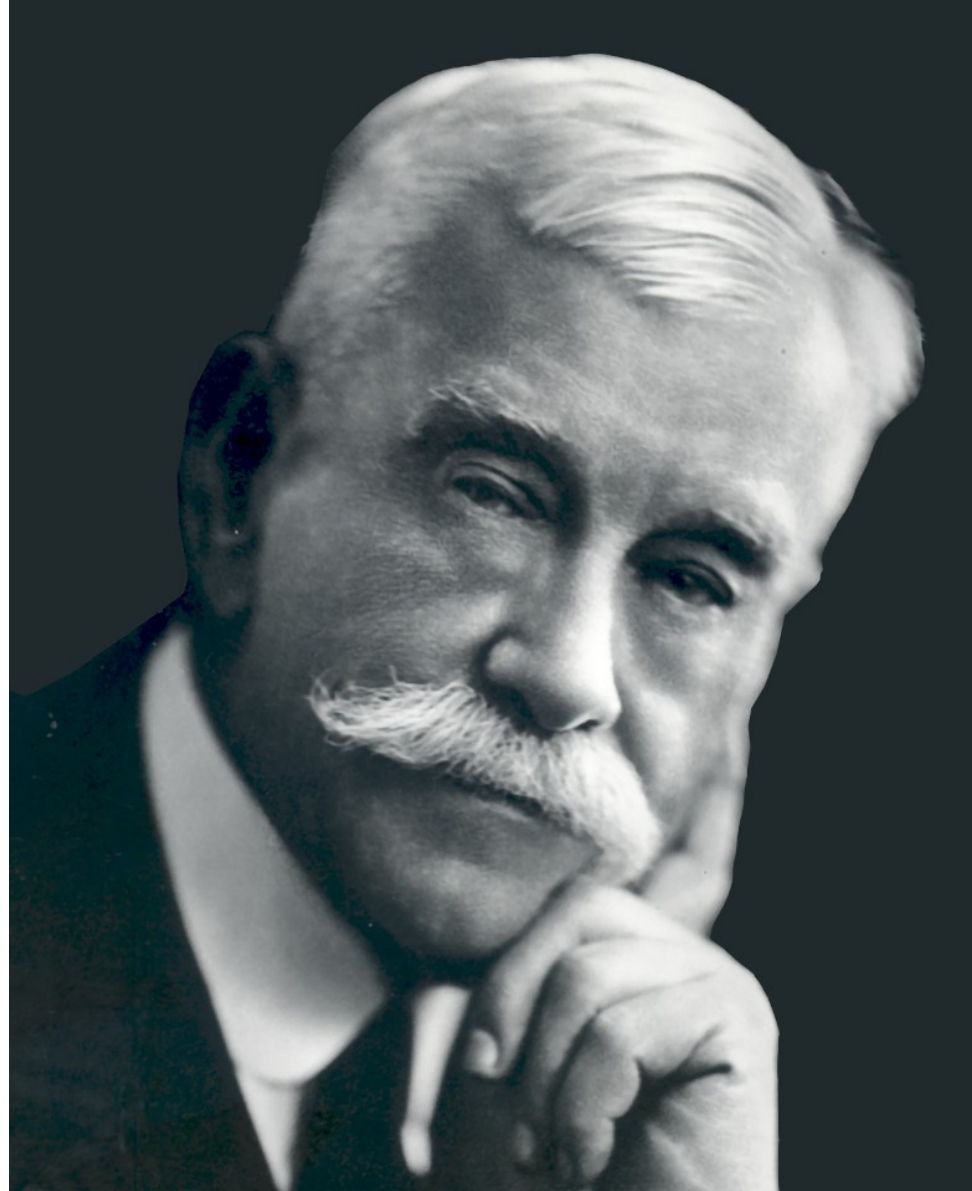
Director of the Carnegie Museum.



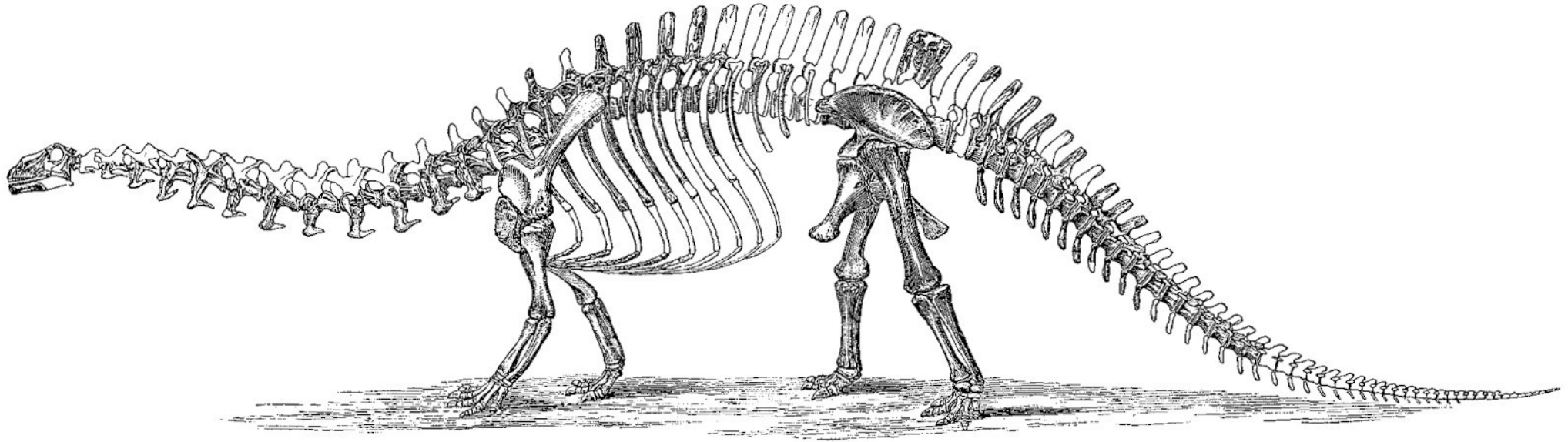
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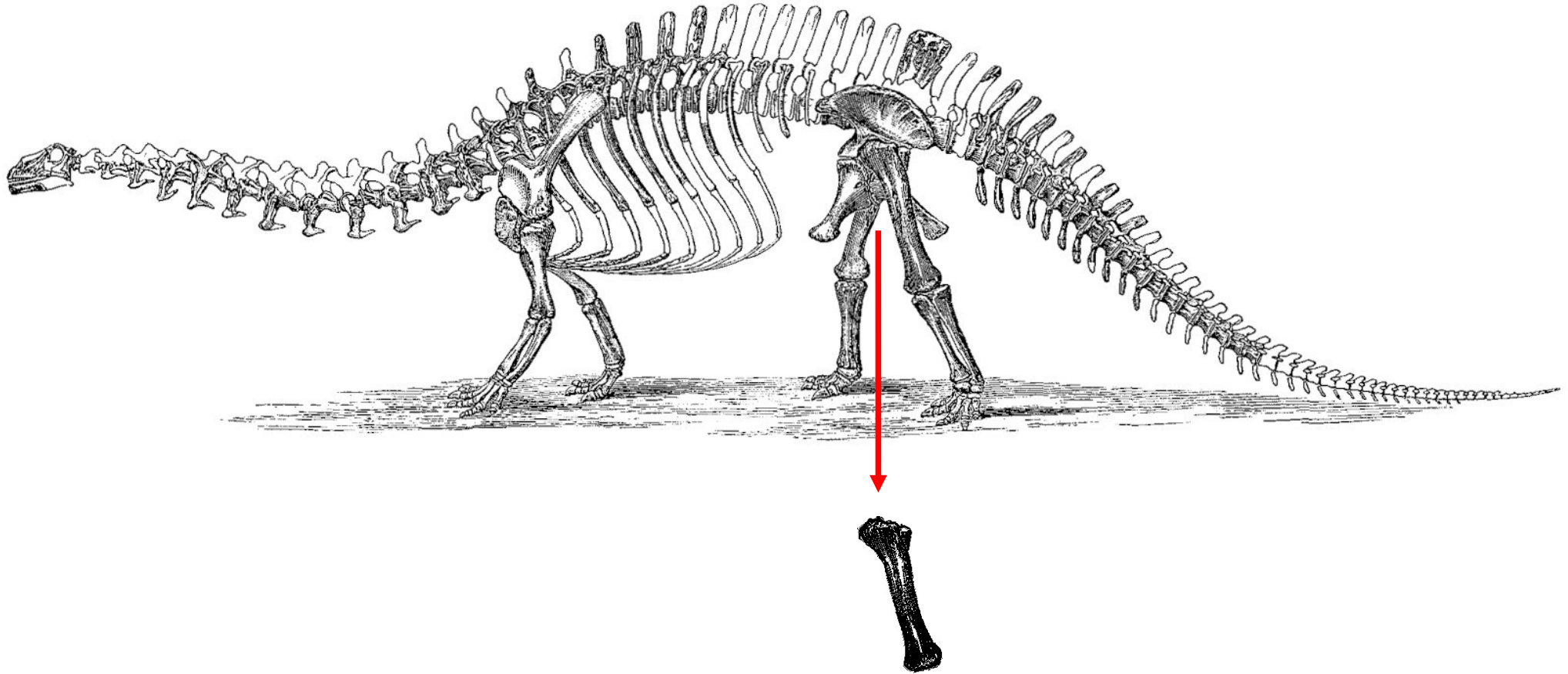
Lepidopterist.



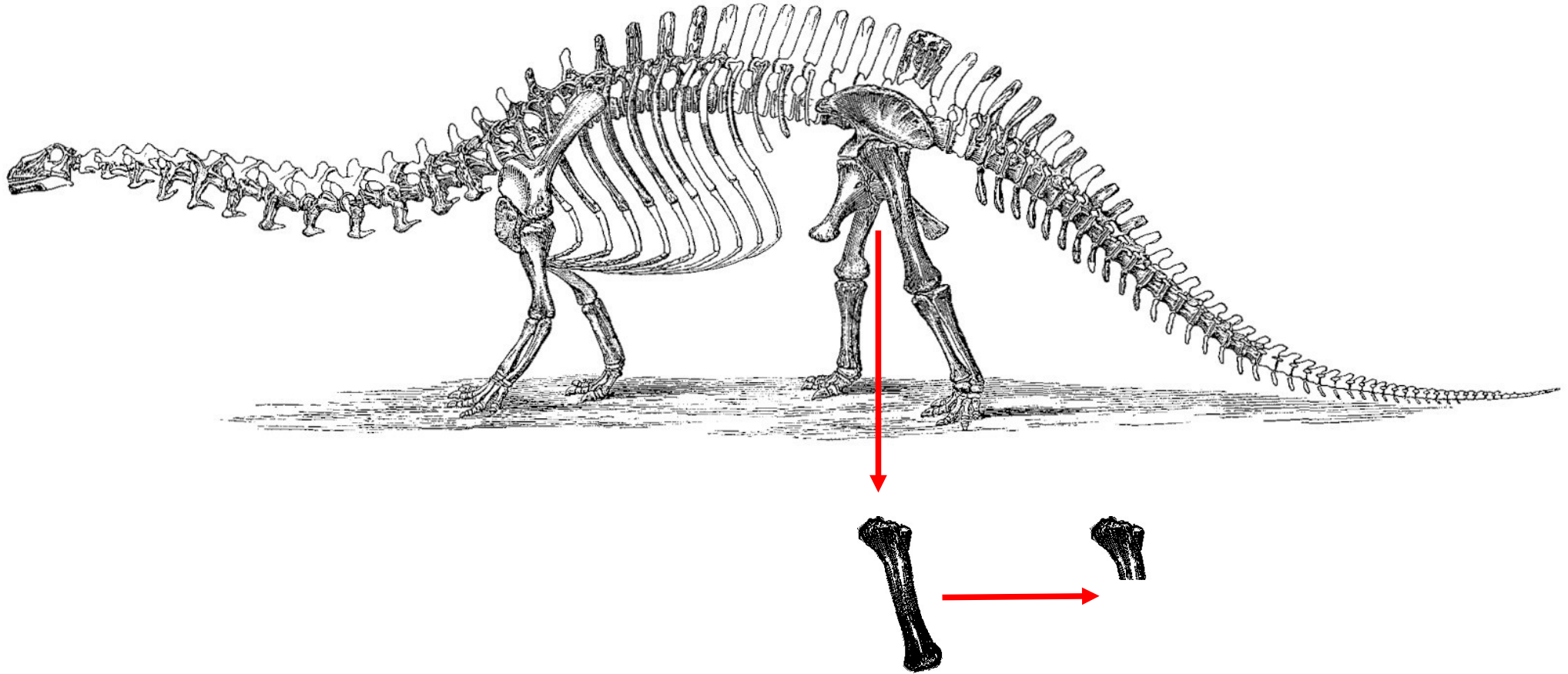
The incredible shrinking dinosaur



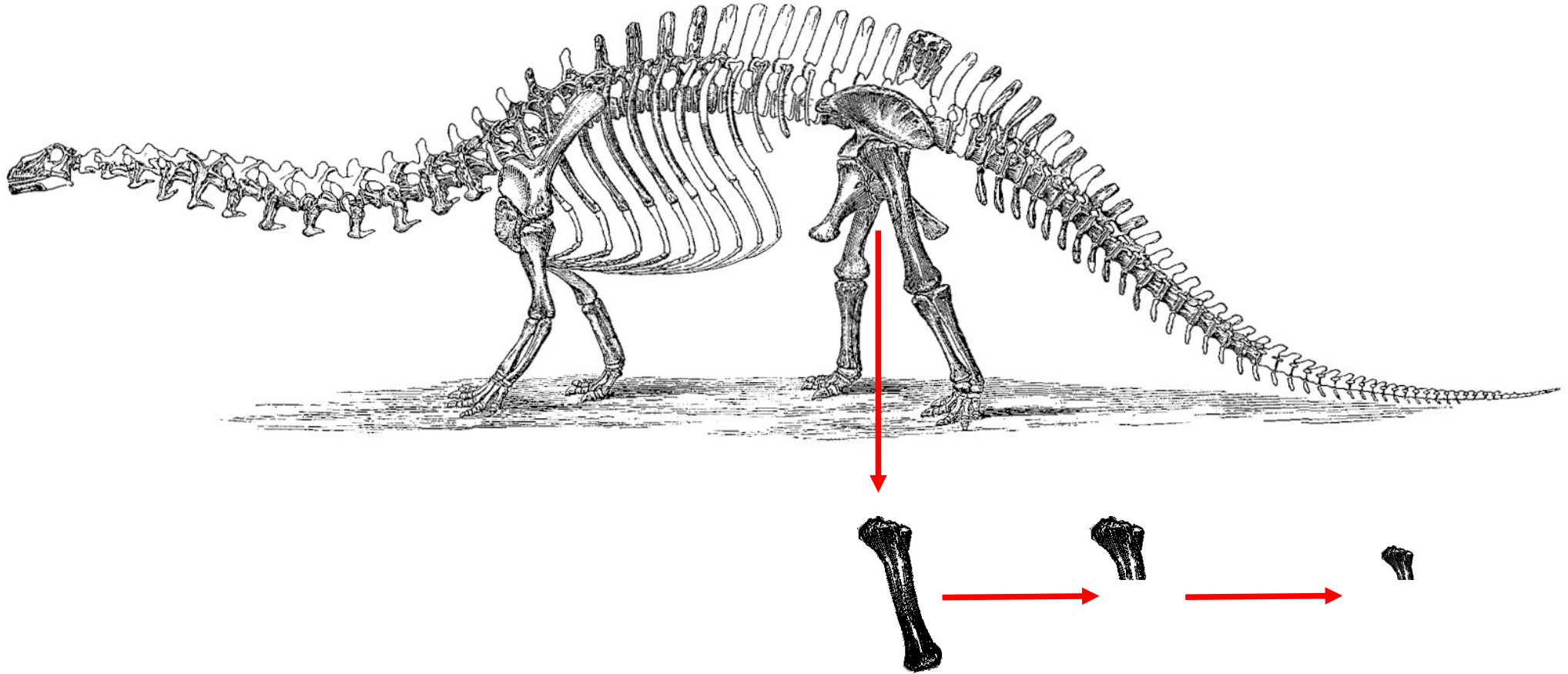
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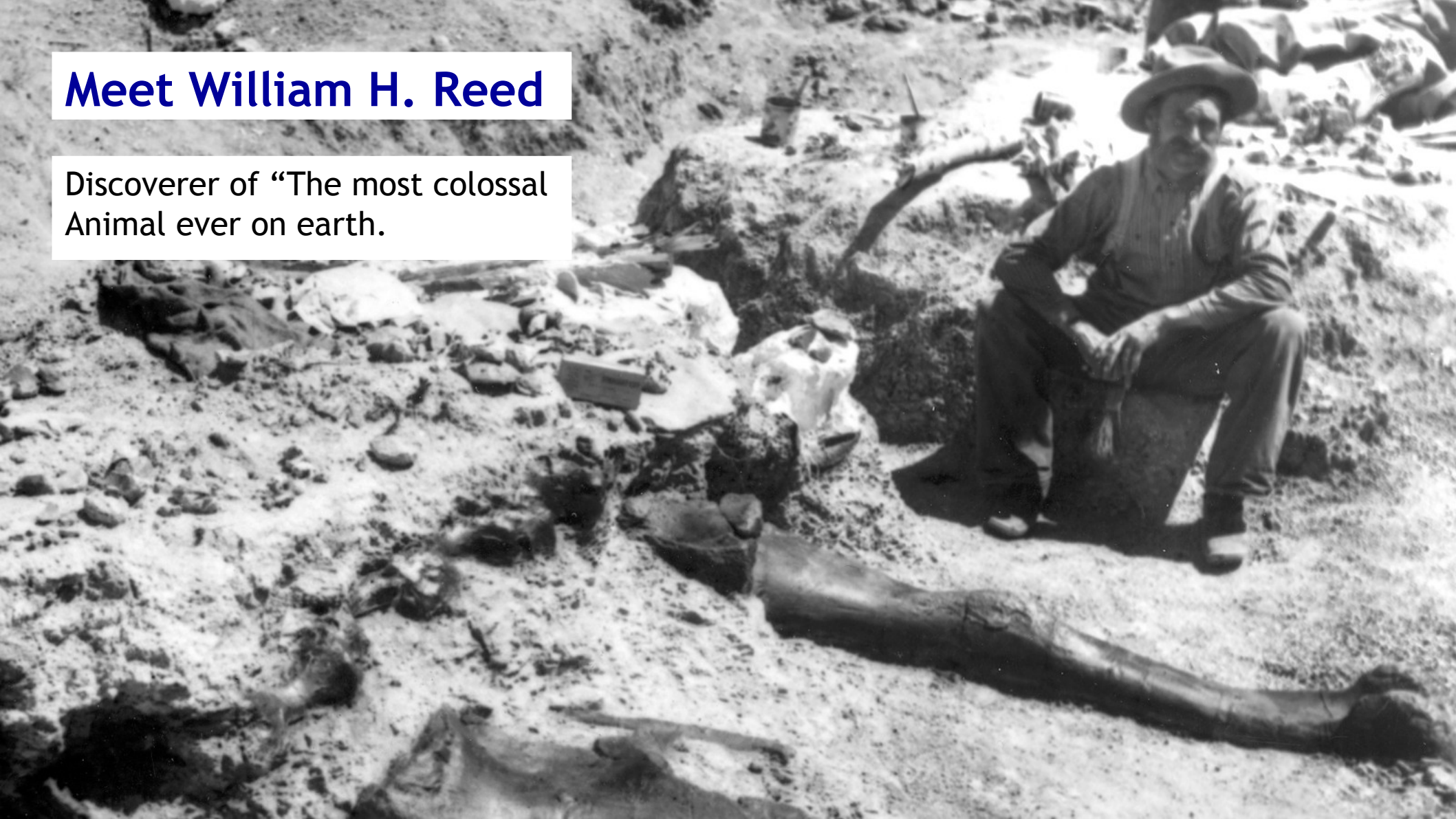


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Meet William H. Reed

Discoverer of “The most colossal
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Hired by Holland to find a better sauropod.



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Here with the right femur of The Carnegie *Diplodocus*.

Found on 2nd or 3rd July 1899



The field crew

Paul Miller

Jacob L. Wortman

William H. Reed

William Reed, Jr.

Not pictured:

Arthur S. Coggeshall.



The prep lab (a few years later)



Olaf Peterson
Louis S. Coggeshall
Charles W. Gilmore
Earl Douglass
Arthur S. Coggeshall
Asher W. VanKirk
Sydney Prentice
John Bell Hatcher

Meet Arthur S. Coggeshall

Lead preparator of the fossils.



Meet Arthur S. Coggeshall

Lead preparator of the fossils.

(Bad photo because he was working class.)

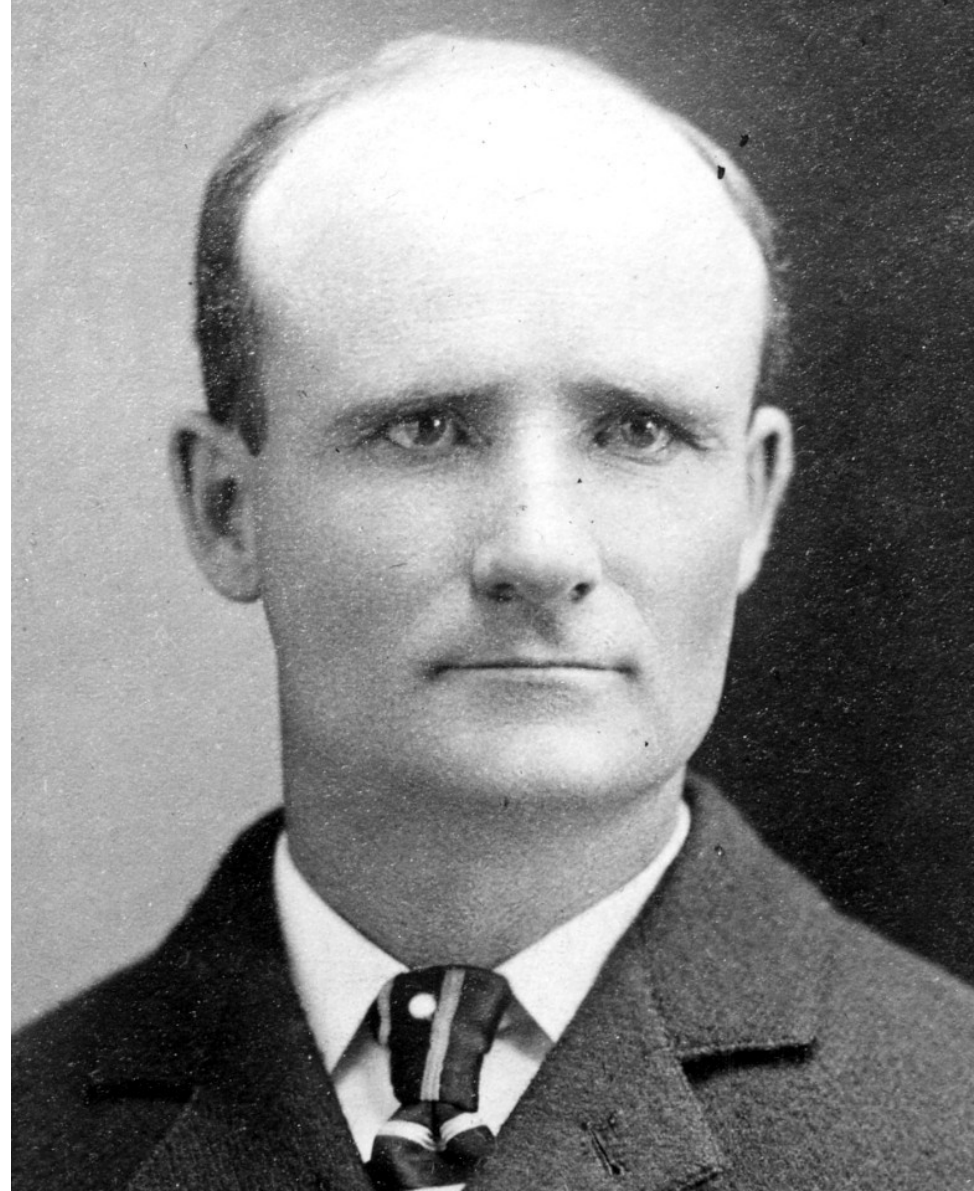


Meet John B. Hatcher

Writer of the monographic description:

Hatcher, John B. 1901. *Diplodocus* (Marsh): its osteology, taxonomy and probable habits, with a restoration of the skeleton.

Memoirs of the Carnegie Museum 1:1-63 and plates I-XIII.



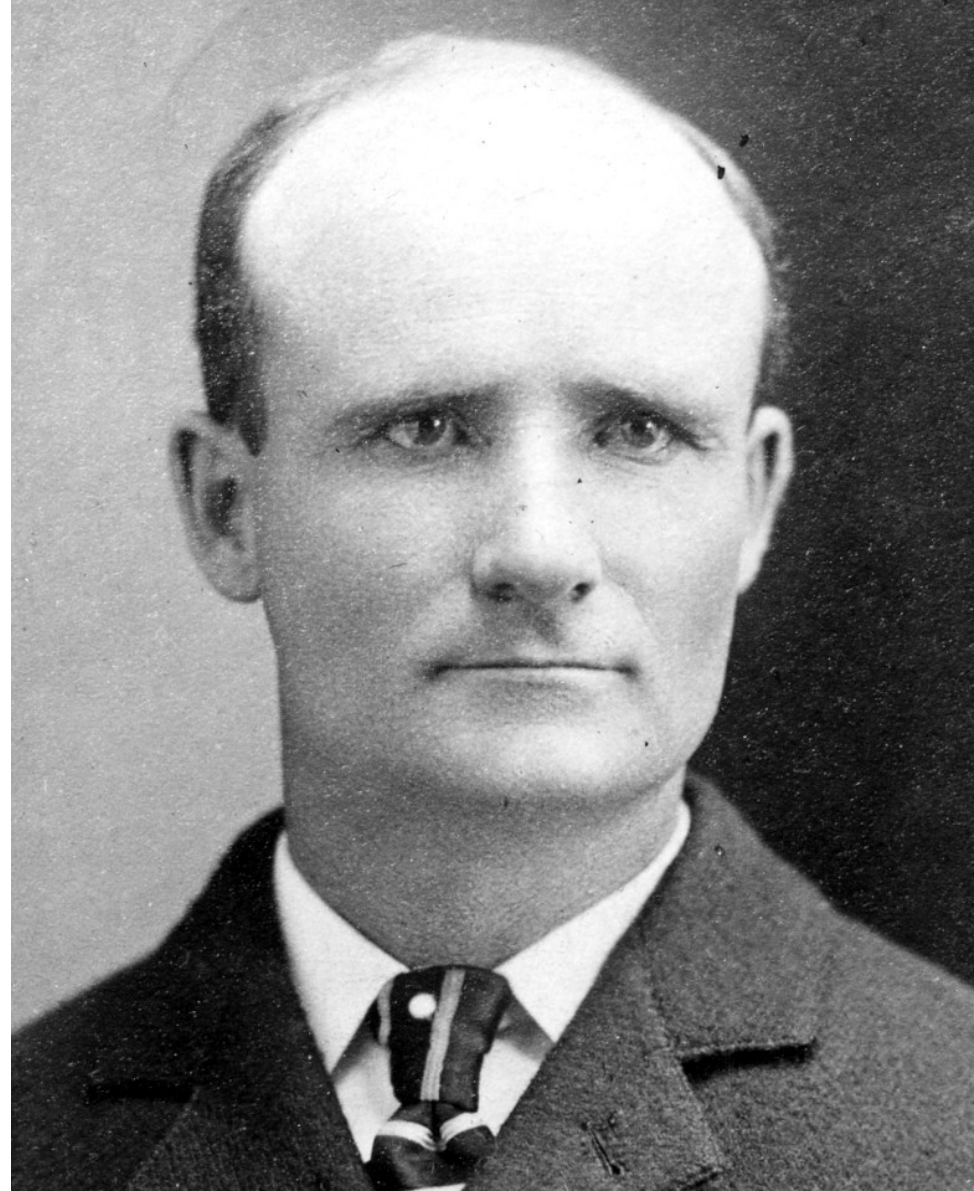
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We still cite this all the time.

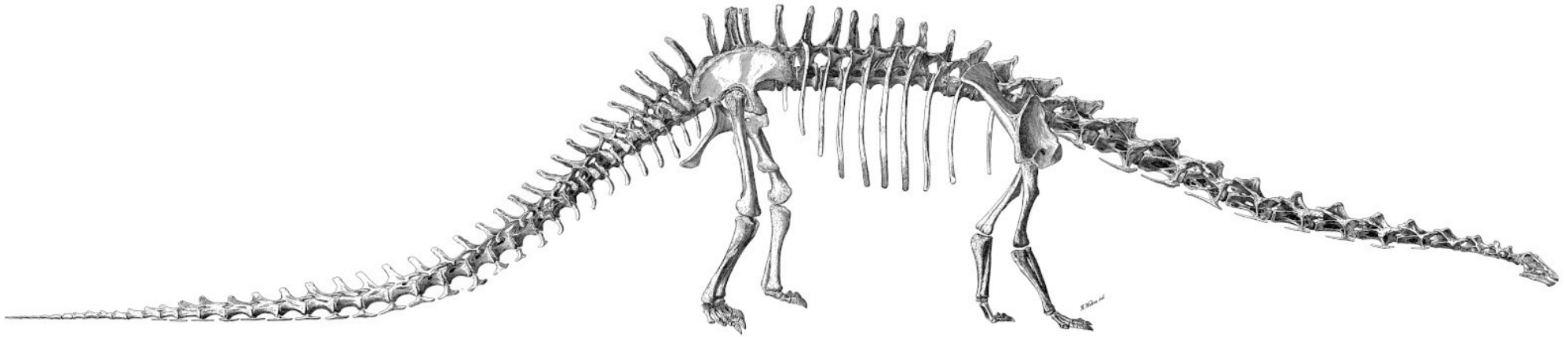
Want to live forever?
Do good descriptive work.



Meet *Diplodocus carnegii*

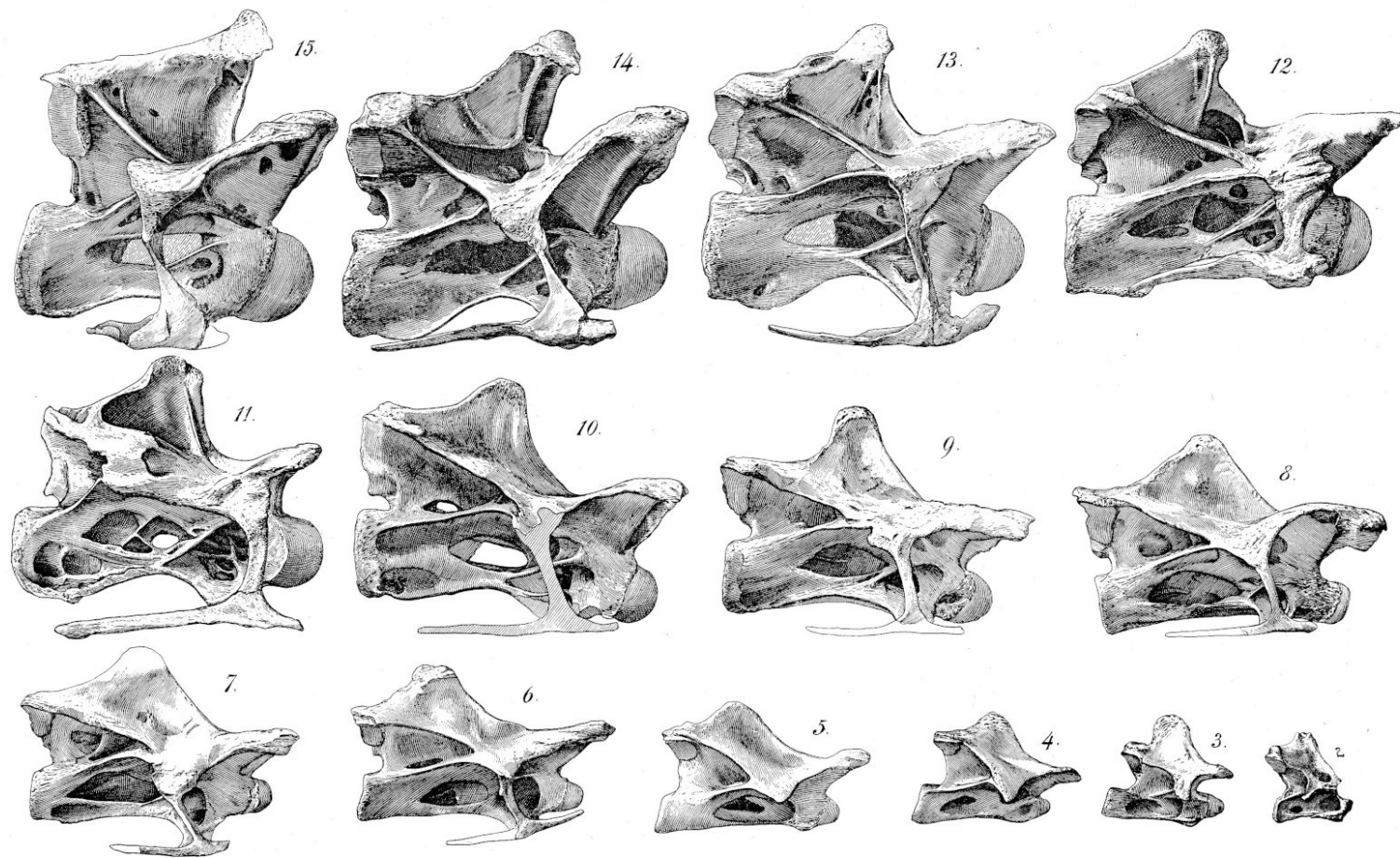
Hatcher 1901: plate XII

(Artwork by the much overlooked R. Weber.)



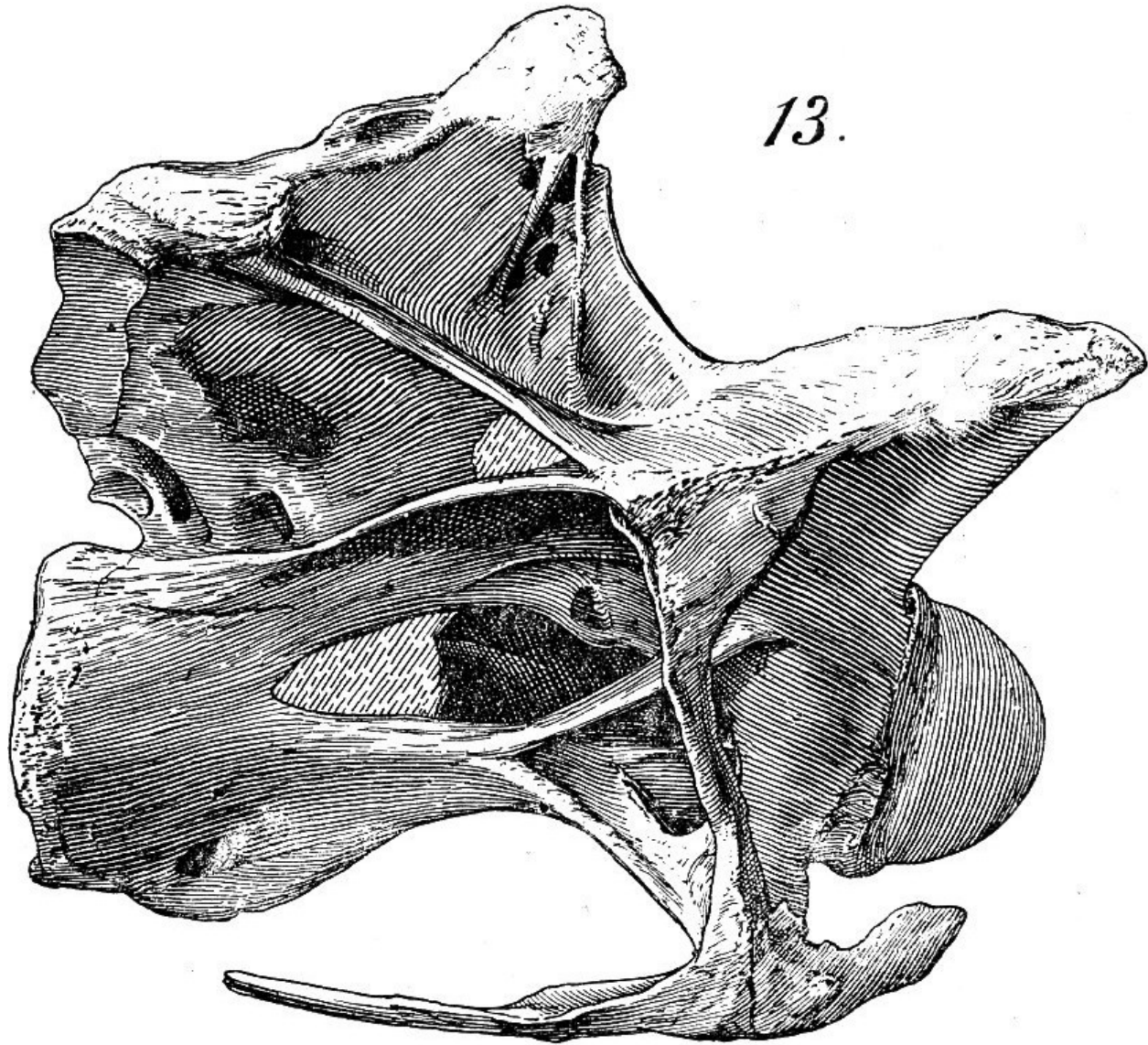
Meet *Diplodocus carnegii*

Hatcher 1901: plate II



Meet
Diplodocus
carnegii

Hatcher 1901: plate III



Meet King Edward VII

Known as “Bertie”

Eldest son of Queen Victoria

Heir to throne for 60 years
King from 1901-1910.

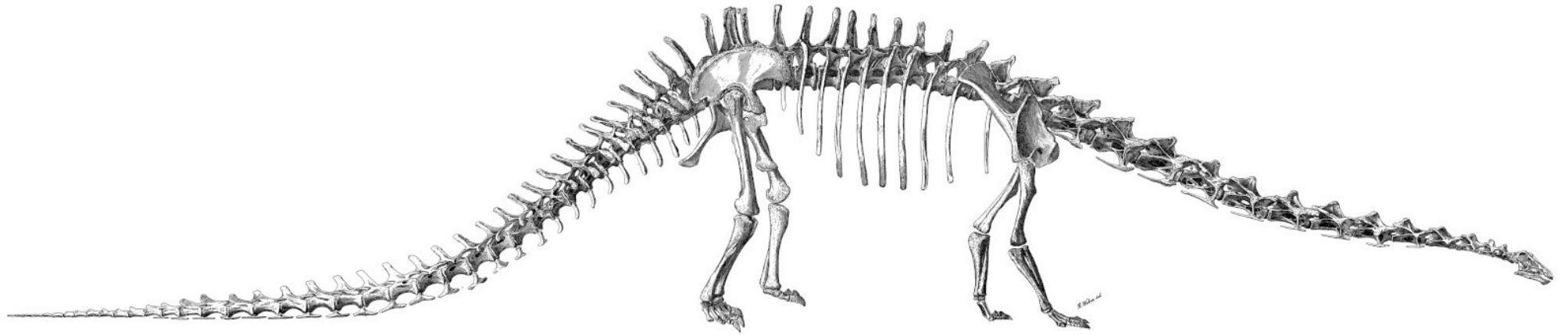


King Edward VII visited Carnegie at Skibo Castle

A surprise visit in October 1902.

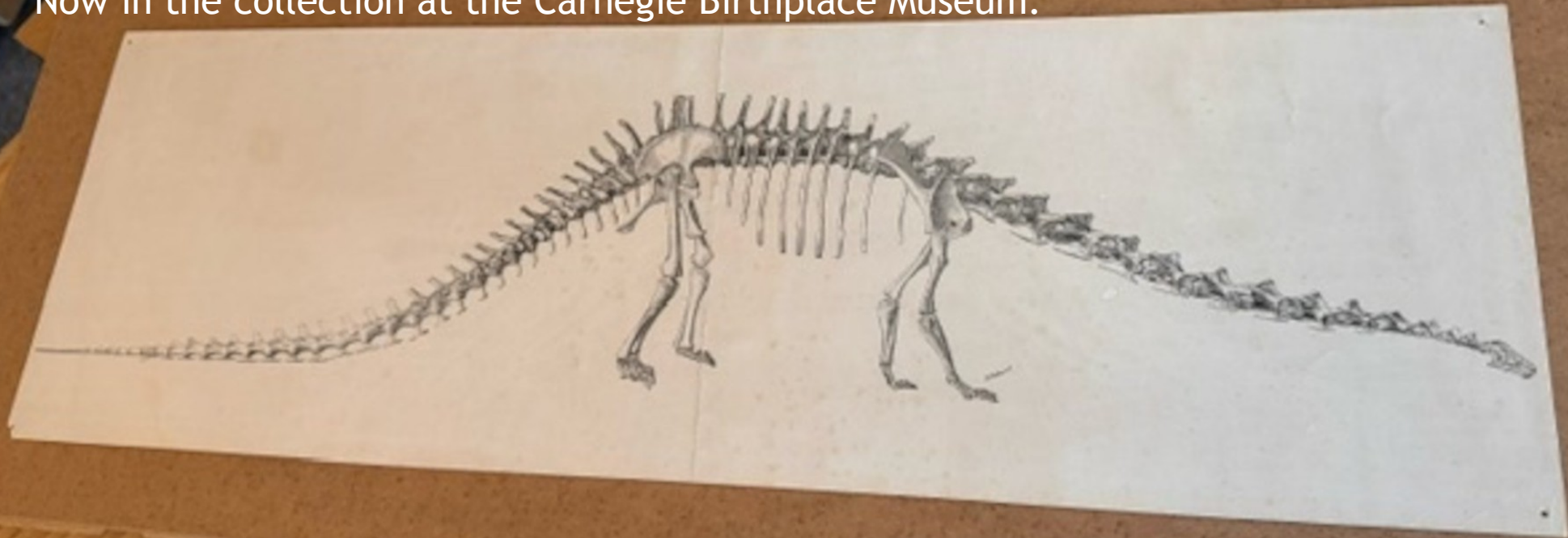


... where the King saw Hatcher's *Diplodocus* plate



... where the King saw Hatcher's *Diplodocus* plate

Now in the collection at the Carnegie Birthplace Museum.



"I want one"

"The King was attracted to the *Diplodocus* when here. He wants one for British Museum badly. I read your note which told of the new finds. He is on your track now for duplicate."

Carnegie to Holland,
2 October 1902.

TELEGRAMS, CLASHMORE,
STATION, BONAR BRIDGE.

Oct 23 1902
SKIBO CASTLE,
DORNOCH,
SUTHERLAND.

My dear Curator.

Yours of 28th Aug
has given me unusual
pleasure.

The King was attracted
to the *Diplodocus*
when here. He wants
one for British Museum
badly. I read your
note which told

of the new finds. He
is on your track
now for duplicate
Maybe you call upon
him when you come
us next time,

We are closing
for season. Madam &
I start on ten days
shopping tour
Six functions for me

Meet Serafino Agostini

Italian sculptor.

Led the moulding and casting process.



Meet Serafino Agostini

Italian sculptor.

Led the moulding and casting process.

Previously worked on church statuary.



Meet Serafino Agostini

Italian sculptor.

Led the moulding and casting process.

Only previously done with
Belgian *Iguanodon*.

Secretive.



Meet Serafino Agostini

Italian sculptor.

Led the moulding and casting process.

“To produce the plaster dinosaurs, a cast had to be made of each bone. The entire bone could not be copied at one time but, protected by a thin coating of wax, must be marked off by wax ridges into small sections, sometimes as many as twenty to one bone. [...] The plaster could not be cast directly on the bone because of its brittleness.”

— Seneff (1947:118)



Meet Serafino Agostini

Italian sculptor.

Led the moulding and casting process.

“the condition of our bones [...] is such that we cannot without endangering the specimens in some cases pour plaster about them to make piece molds. [...] It will become necessary for us to carefully model in sculptor’s clay a number of at least the vertebrae, and then from the models make molds, from which an indefinite number of reproductions can in future be made.”

— Holland (1903) letter to Carnegie.



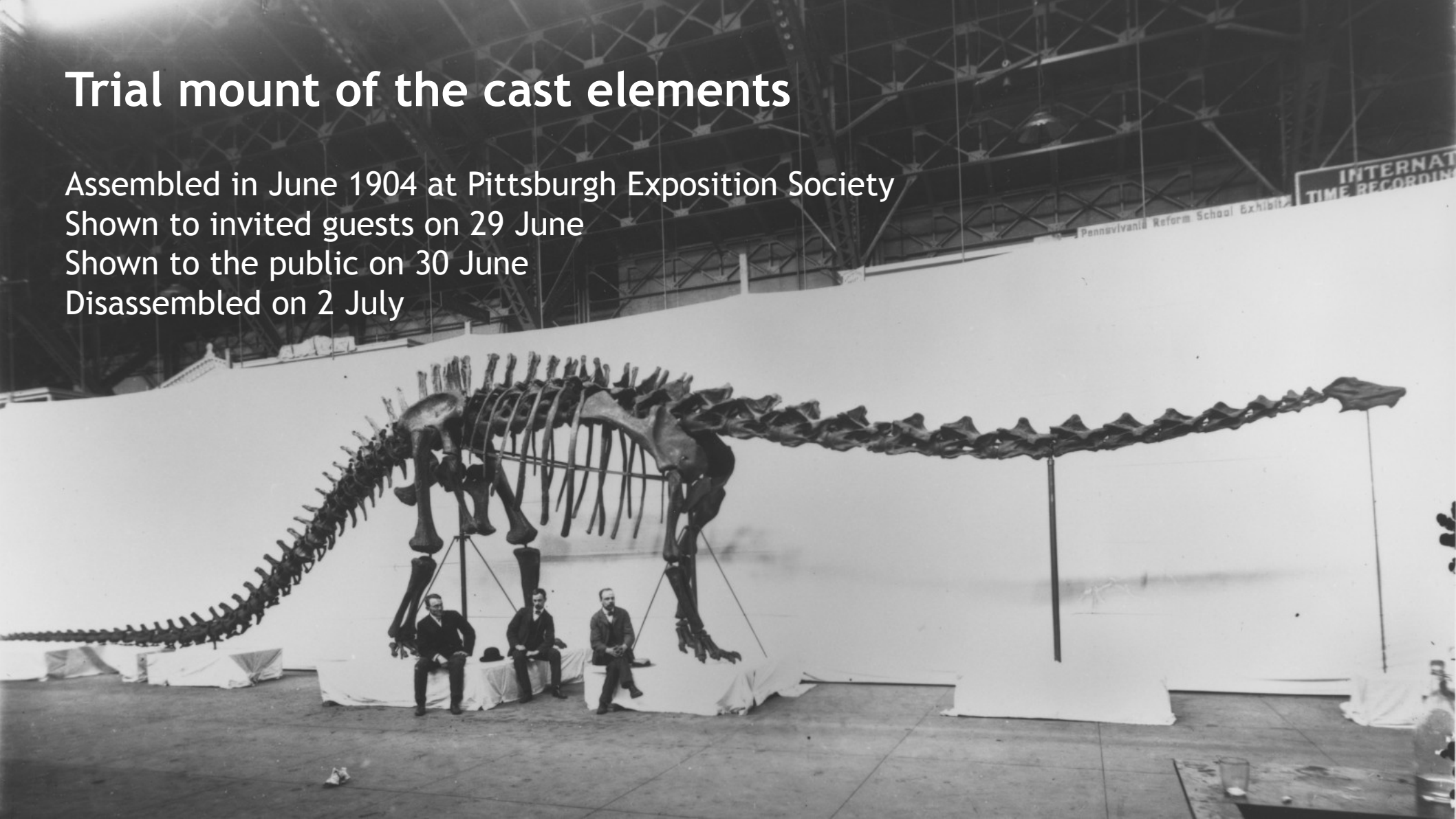
Trial mount of the cast elements

Assembled in June 1904 at Pittsburgh Exposition Society

Shown to invited guests on 29 June

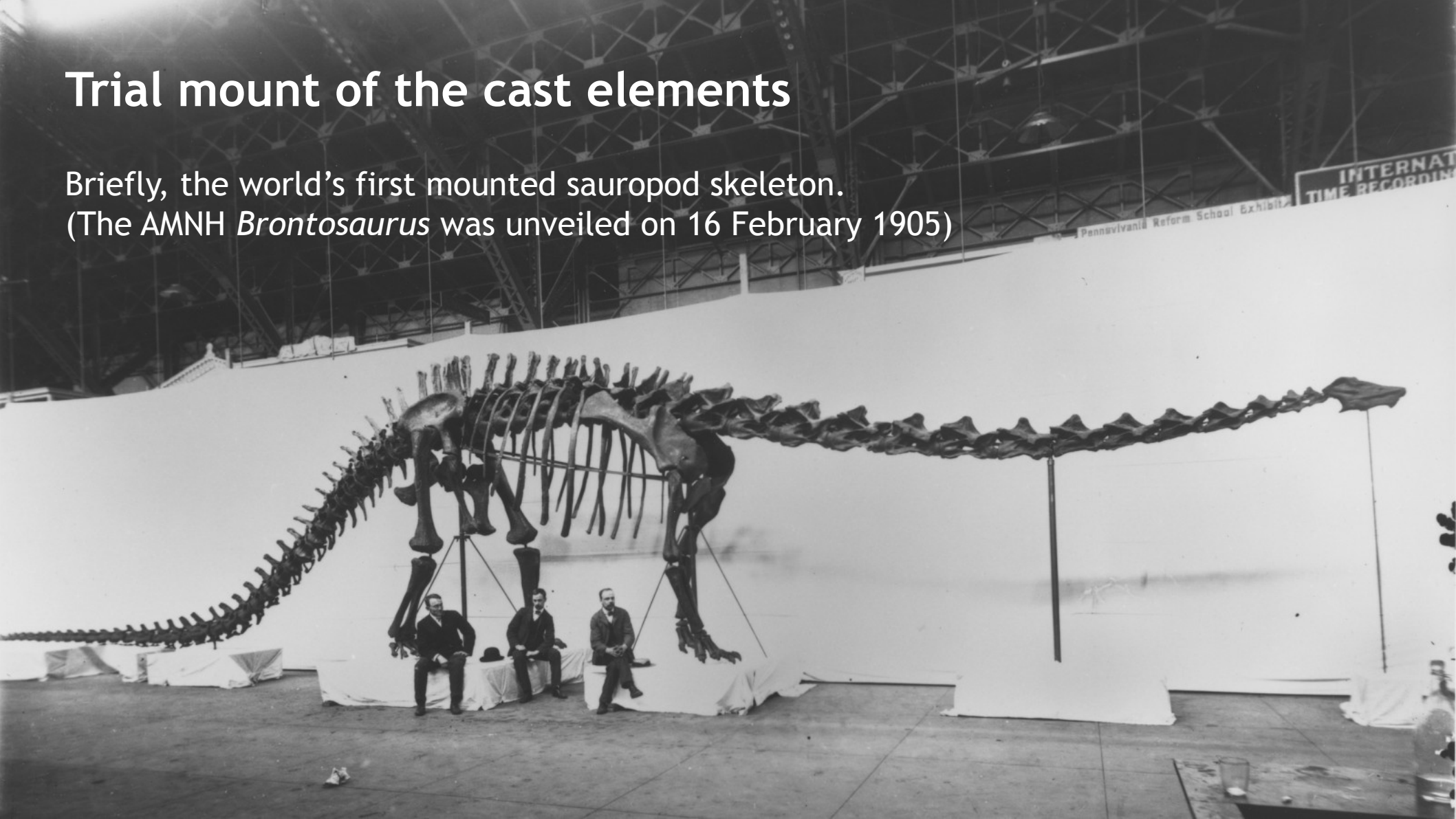
Shown to the public on 30 June

Disassembled on 2 July



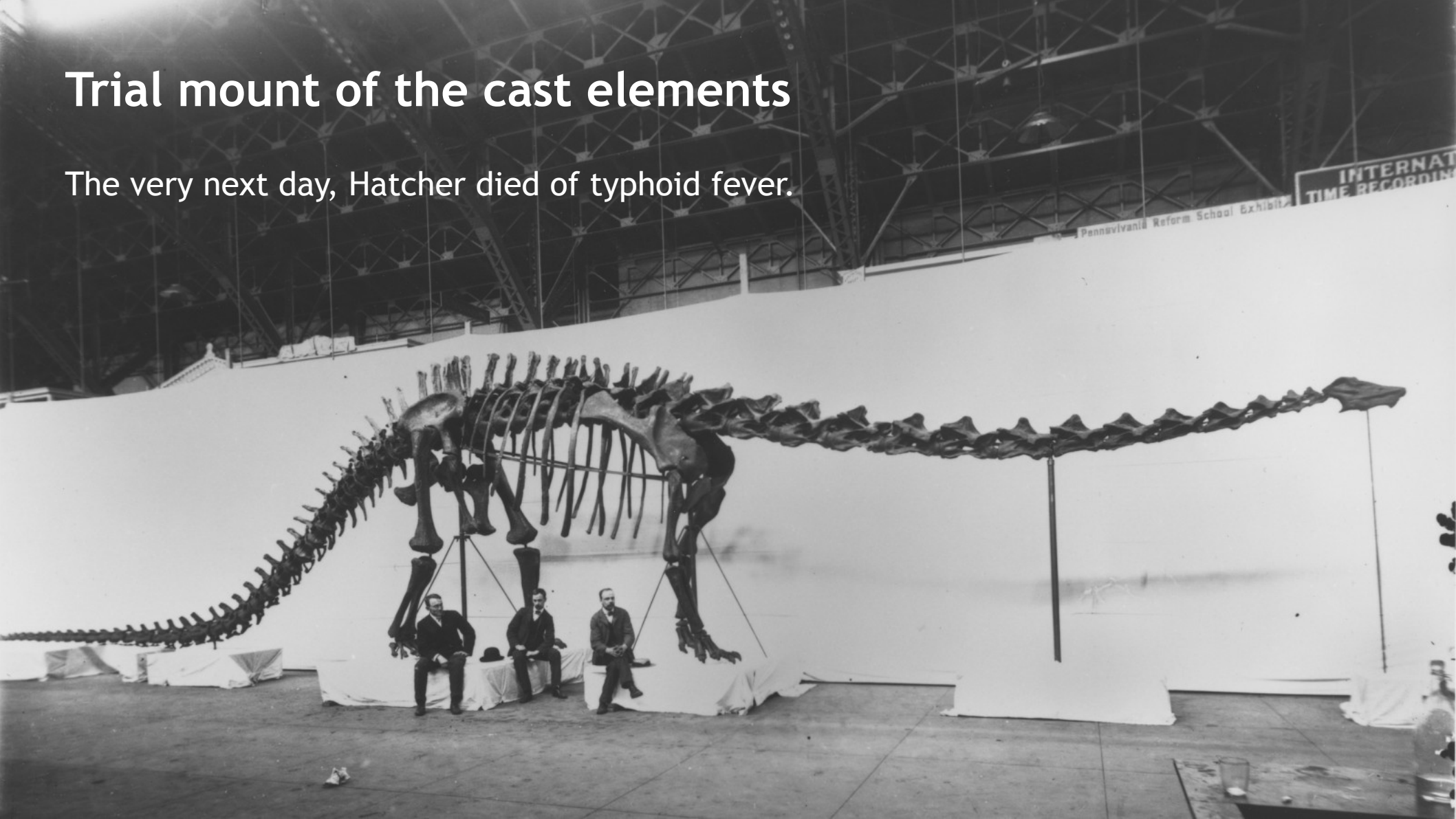
Trial mount of the cast elements

Briefly, the world's first mounted sauropod skeleton.
(The AMNH *Brontosaurus* was unveiled on 16 February 1905)



Trial mount of the cast elements

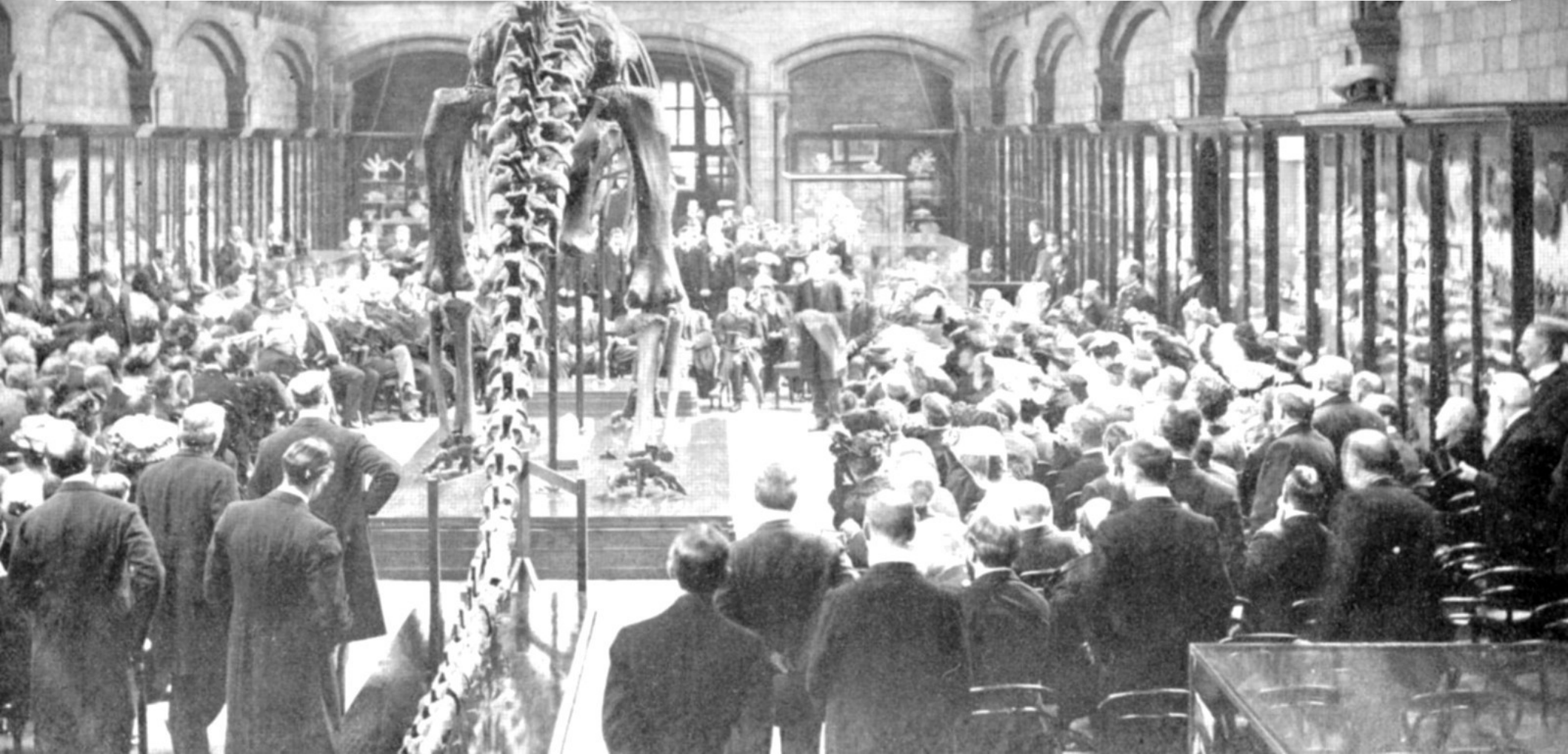
The very next day, Hatcher died of typhoid fever.



Mounted in London, April 1905

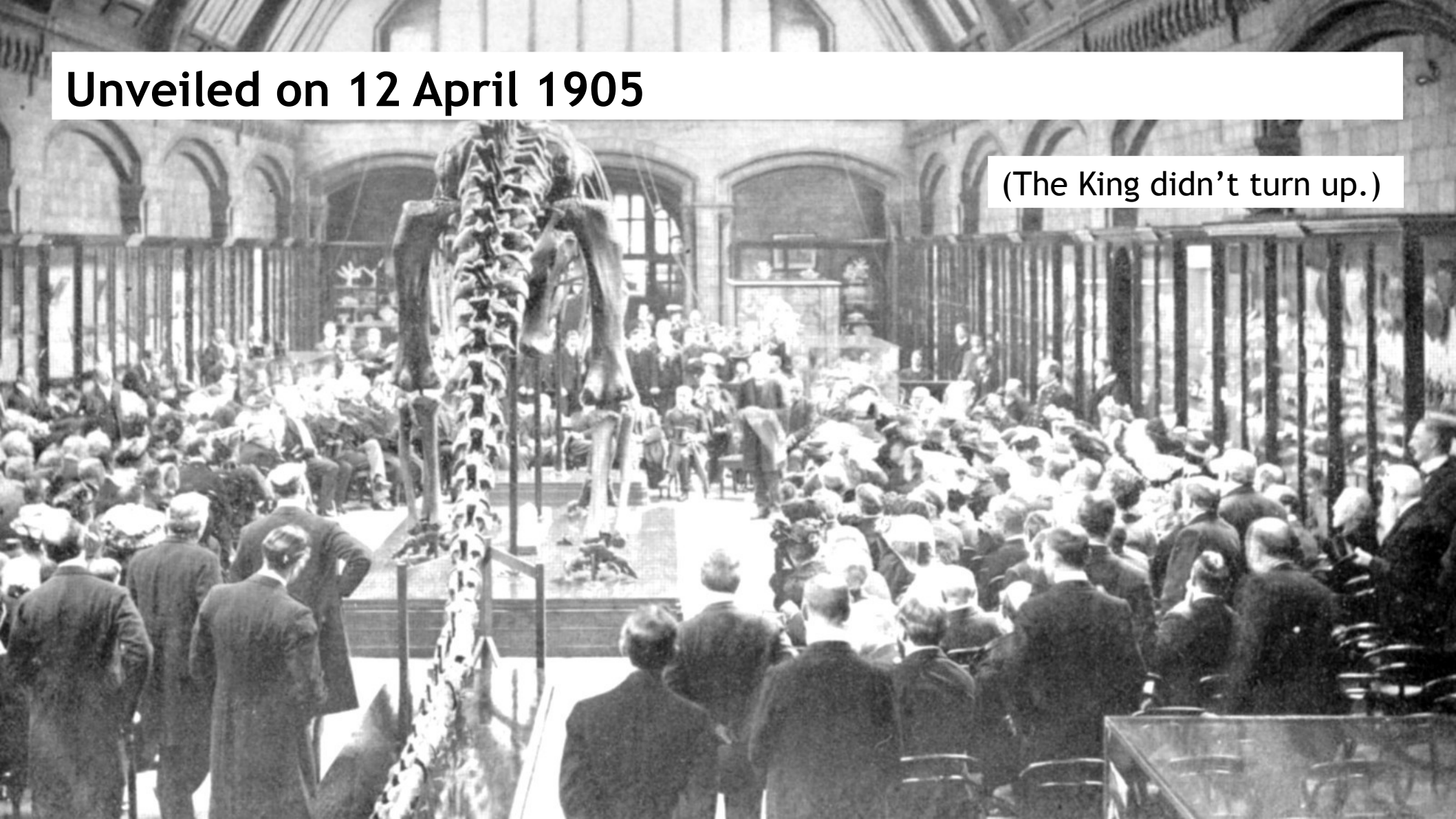


Unveiled on 12 April 1905



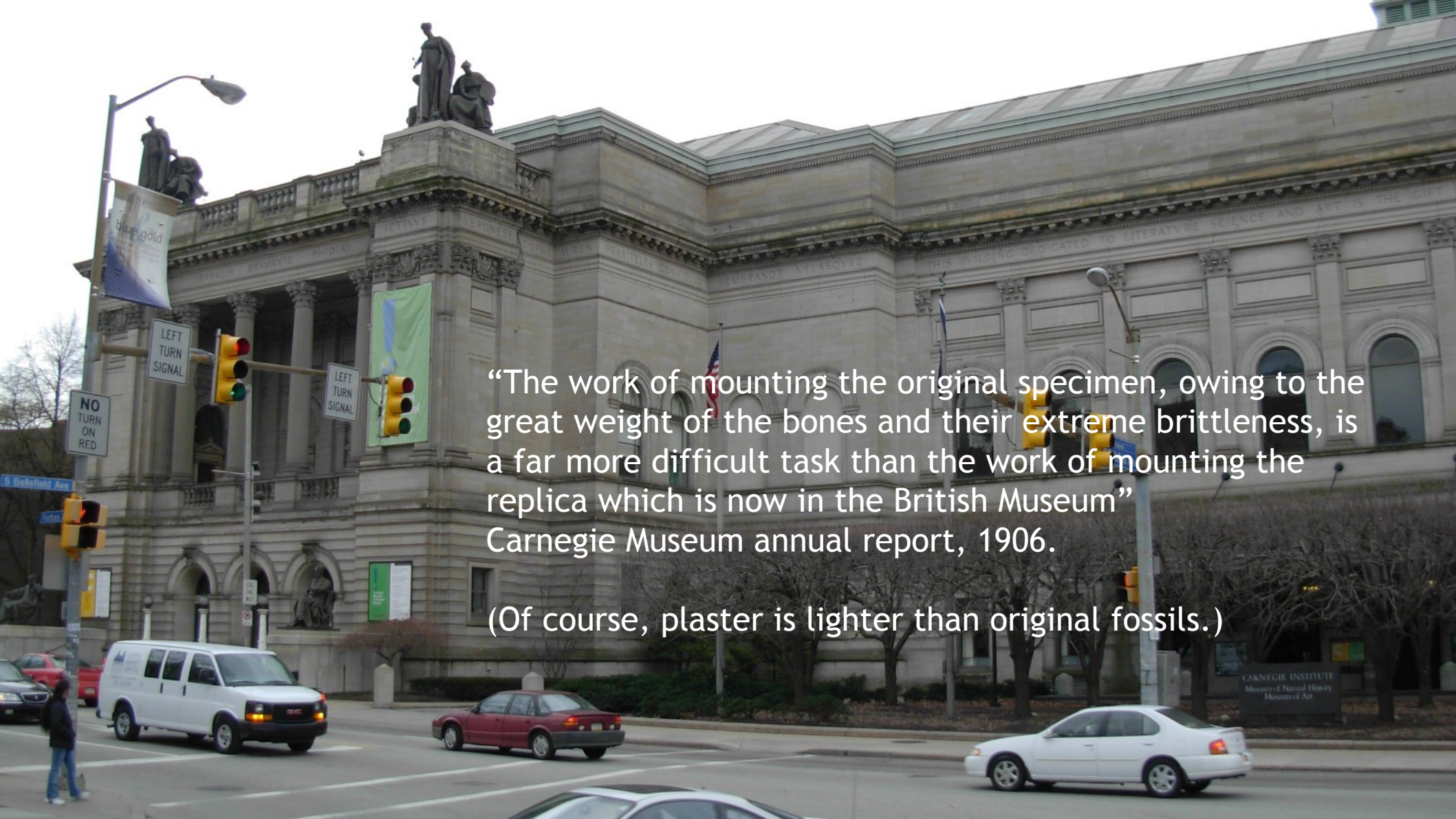
Unveiled on 12 April 1905

(The King didn't turn up.)





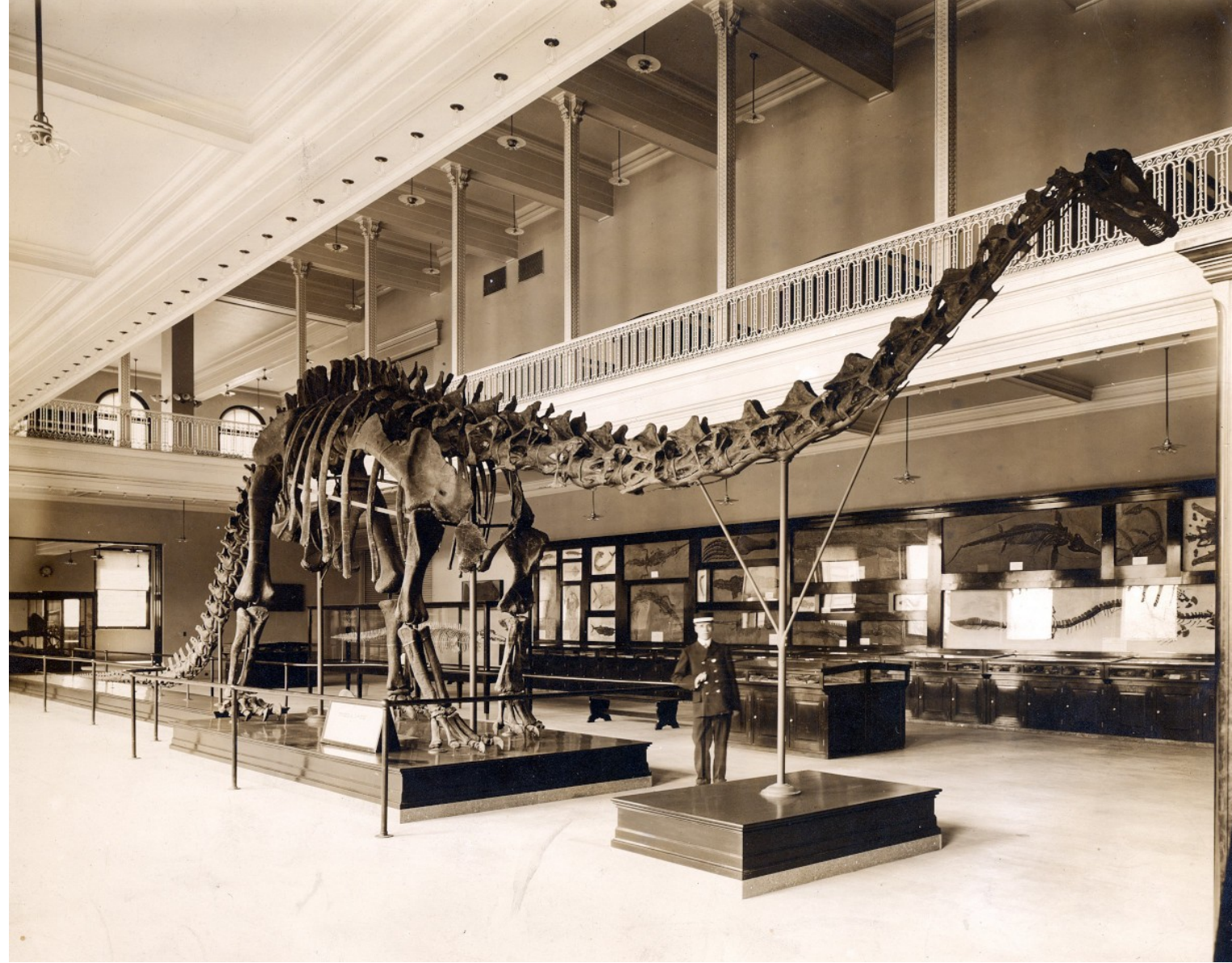
Meanwhile, back at the ranch ...



“The work of mounting the original specimen, owing to the great weight of the bones and their extreme brittleness, is a far more difficult task than the work of mounting the replica which is now in the British Museum”
Carnegie Museum annual report, 1906.

(Of course, plaster is lighter than original fossils.)

The original
skeleton was
mounted in
1907



The composition of the mounted “skeleton” was complex

Bones

CM 84: neck, torso, ribs, sacrum, 12 proximal caudals, left scapulocoracoid, sternal plates, right ilium, pubes, ischia, left femur

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CM 94: right scapulocoracoid, lower right hindlimb and much of the tail

The composition of the mounted “skeleton” was complex

Bones

CM 84: neck, torso, ribs, sacrum, 12 proximal caudals, left scapulocoracoid, sternal plates, right ilium, pubes, ischia, left femur

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CM 307: the rest of the tail

The composition of the mounted “skeleton” was complex

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CM 307: the rest of the tail

CM 33985: lower left hindlimb

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CM 33985: lower left hindlimb

CM 21775: left forelimb

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CM 33985: lower left hindlimb

CM 21775: left forelimb

Sculptures

CM 662: sculpted right forelimb

AMNH 965: sculpted forefeet

CM 662: sculpted braincase

USNM 2673: sculpted remainder of skull

Pure sculpture: axis, left ilium, femur and tibia

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Based on skeletal reconstruction by Scott Hartman
Used by permission

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Pure sculpture: axis, left ilium, femur and tibia

**Something
wrong here**

The composition of the mounted “skeleton” was complex

Bones

CM 84: neck, torso, ribs, sacrum, 12 proximal caudals, left scapulocoracoid, sternal plates, right ilium, pubes, ischia, left femur

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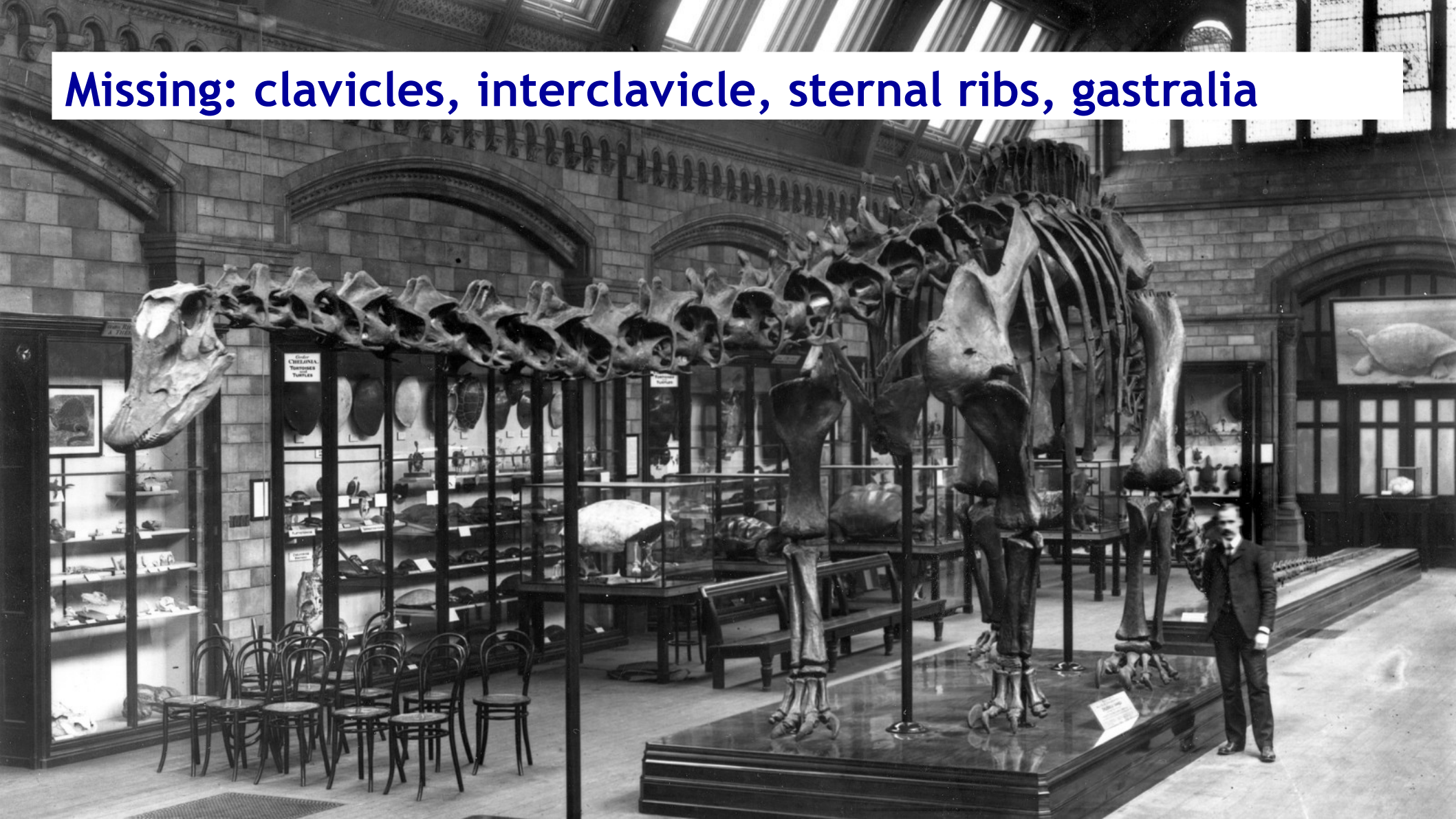
USNM 2673: sculpted remainder of skull

Pure sculpture: axis, left ilium, femur and tibia

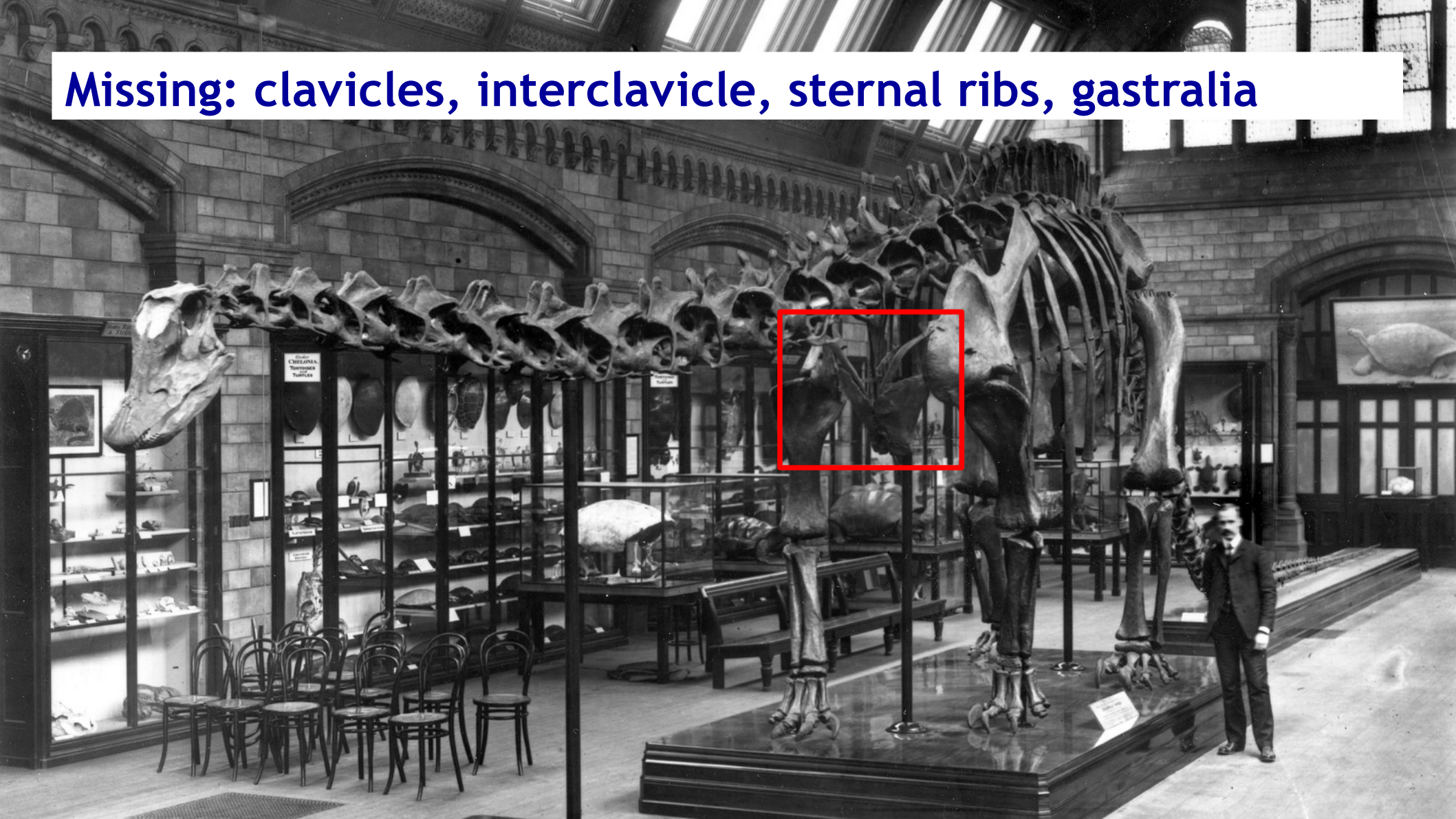
Missing: clavicles, interclavicle, sternal ribs, gastralia

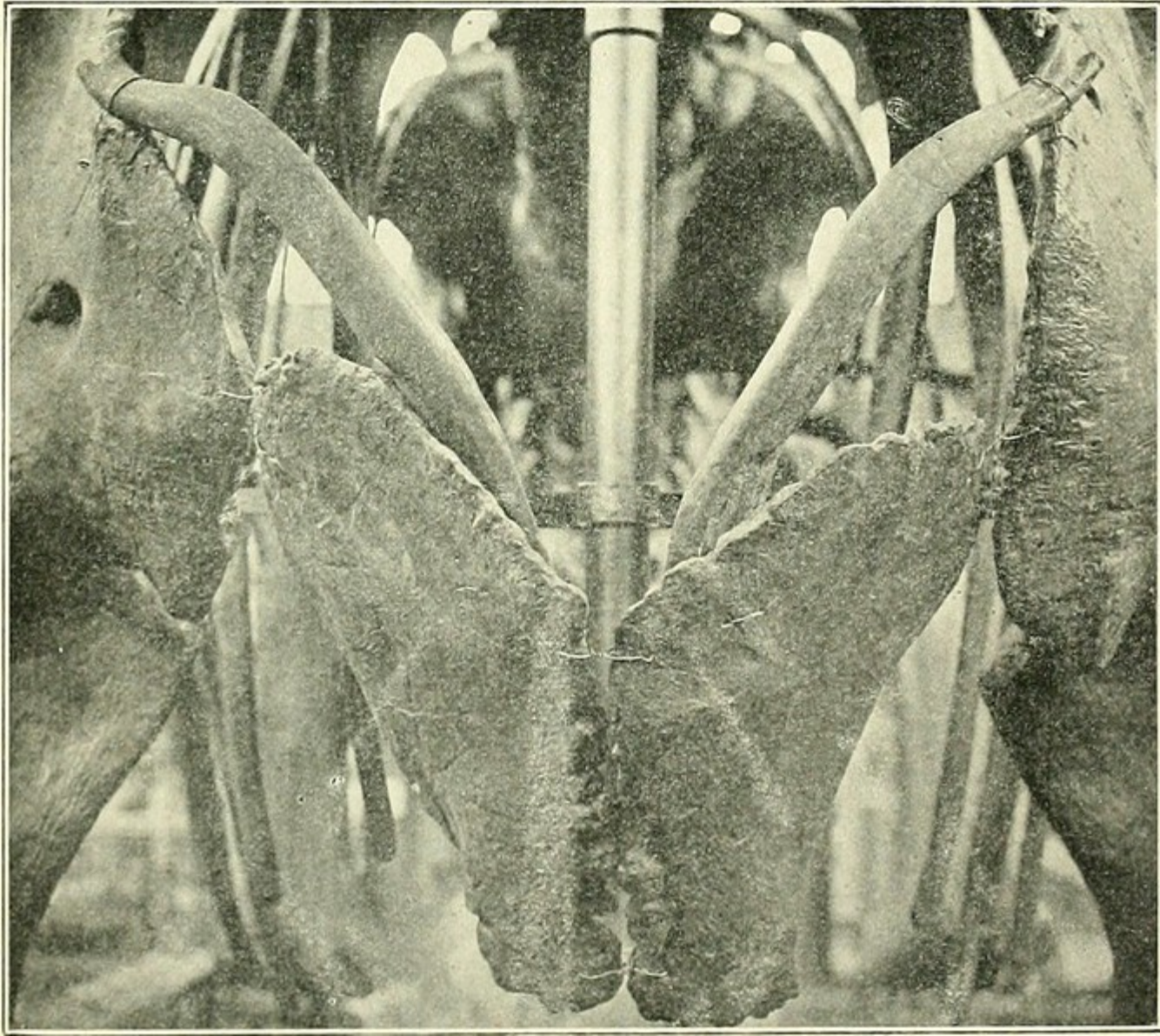
Missing: clavicles, interclavicle, sternal ribs, gastralia

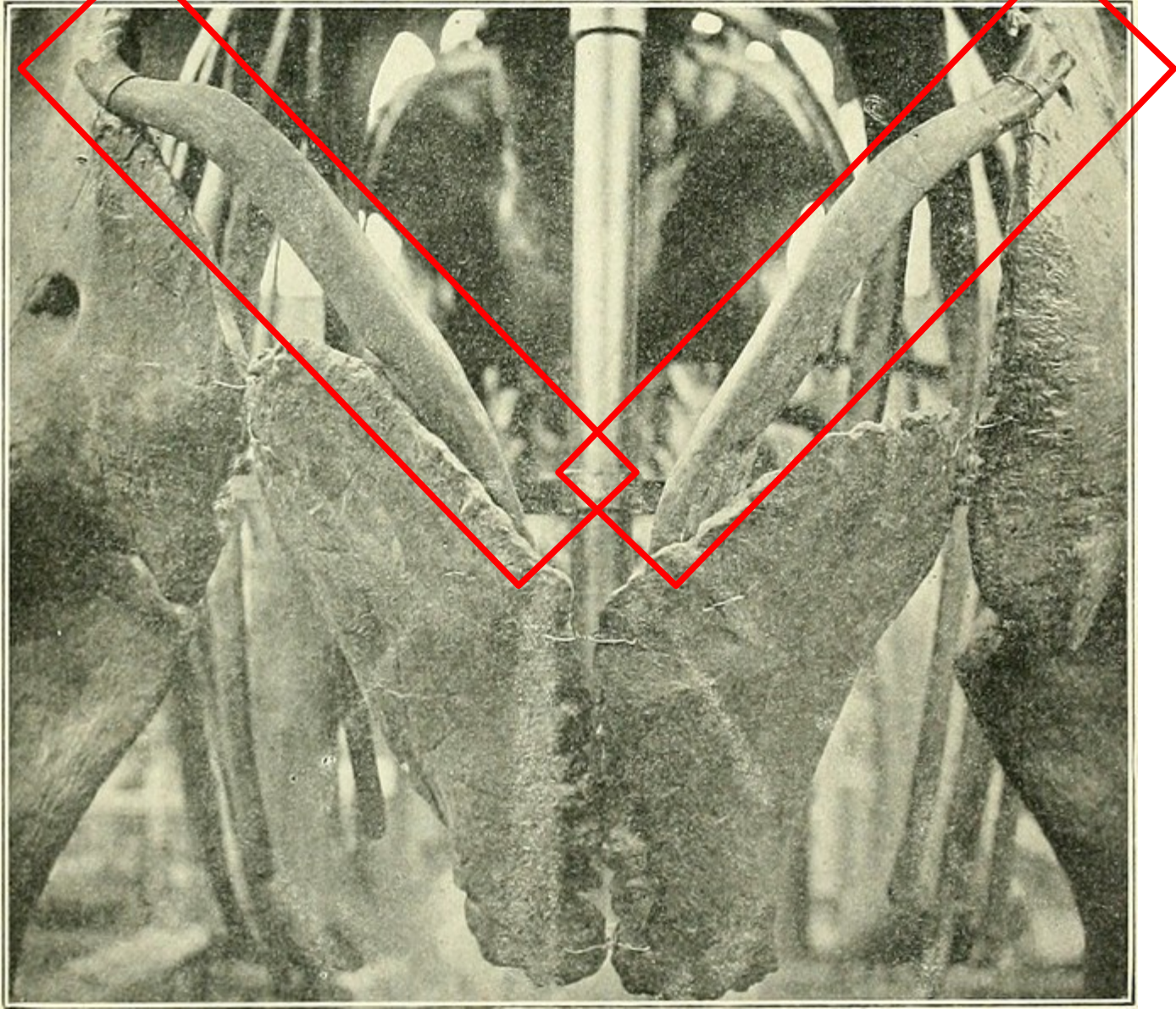
Missing: clavicles, interclavicle, sternal ribs, gastralia

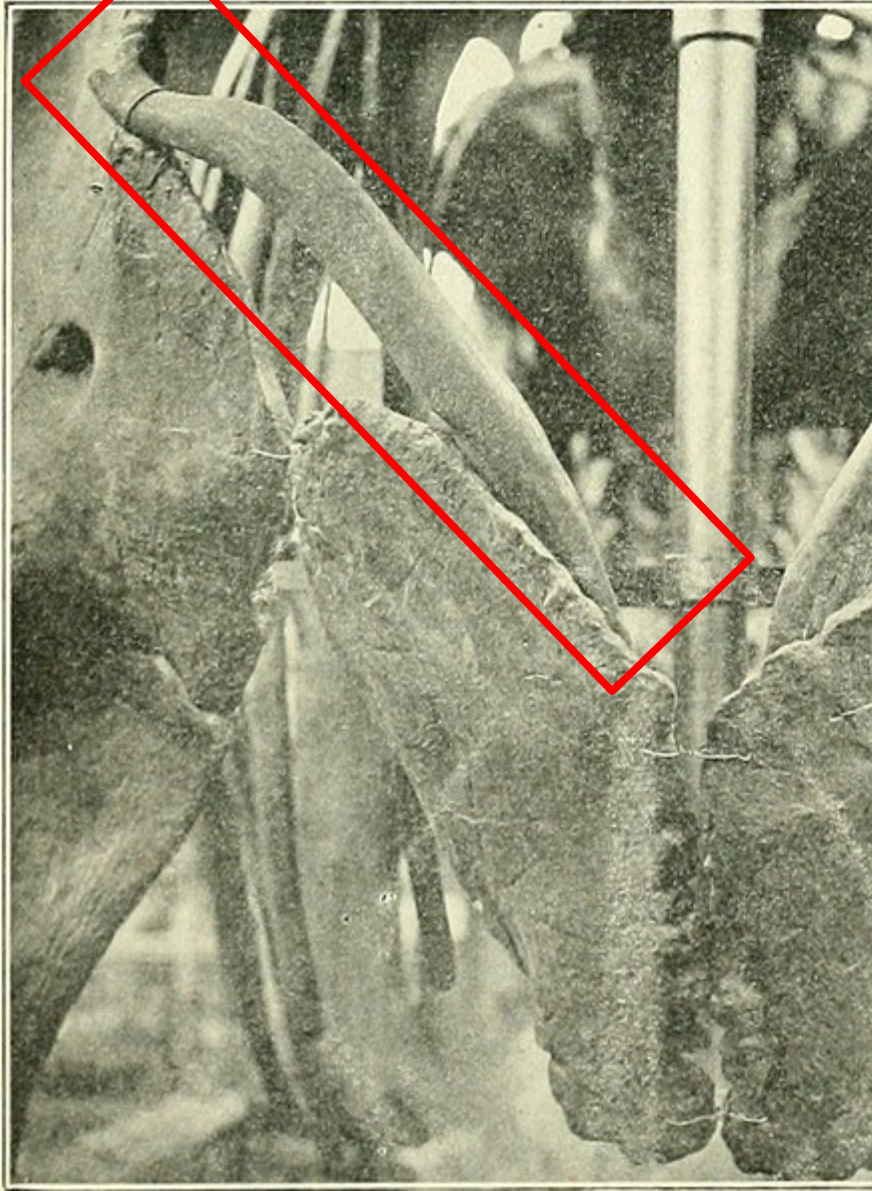


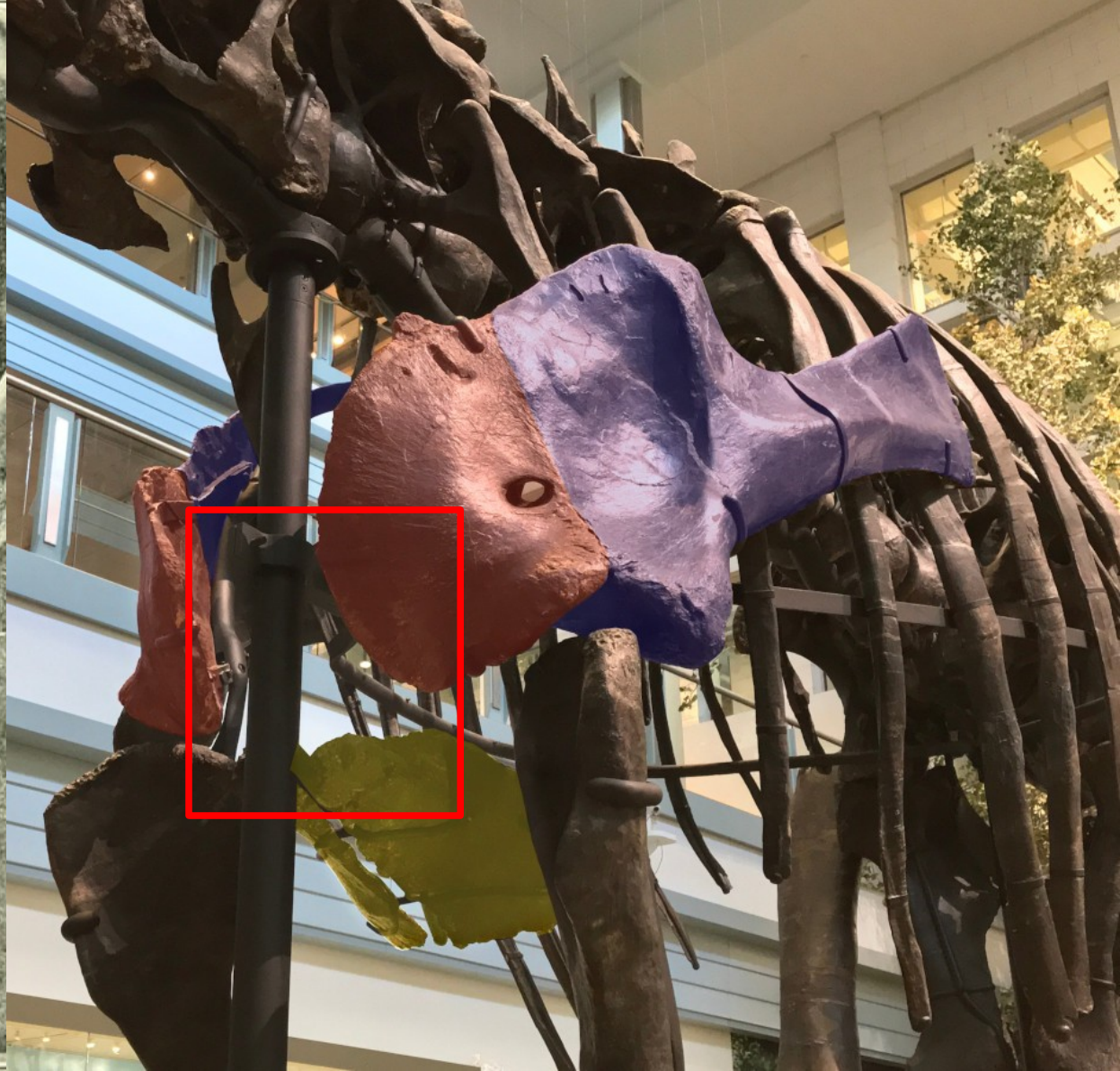
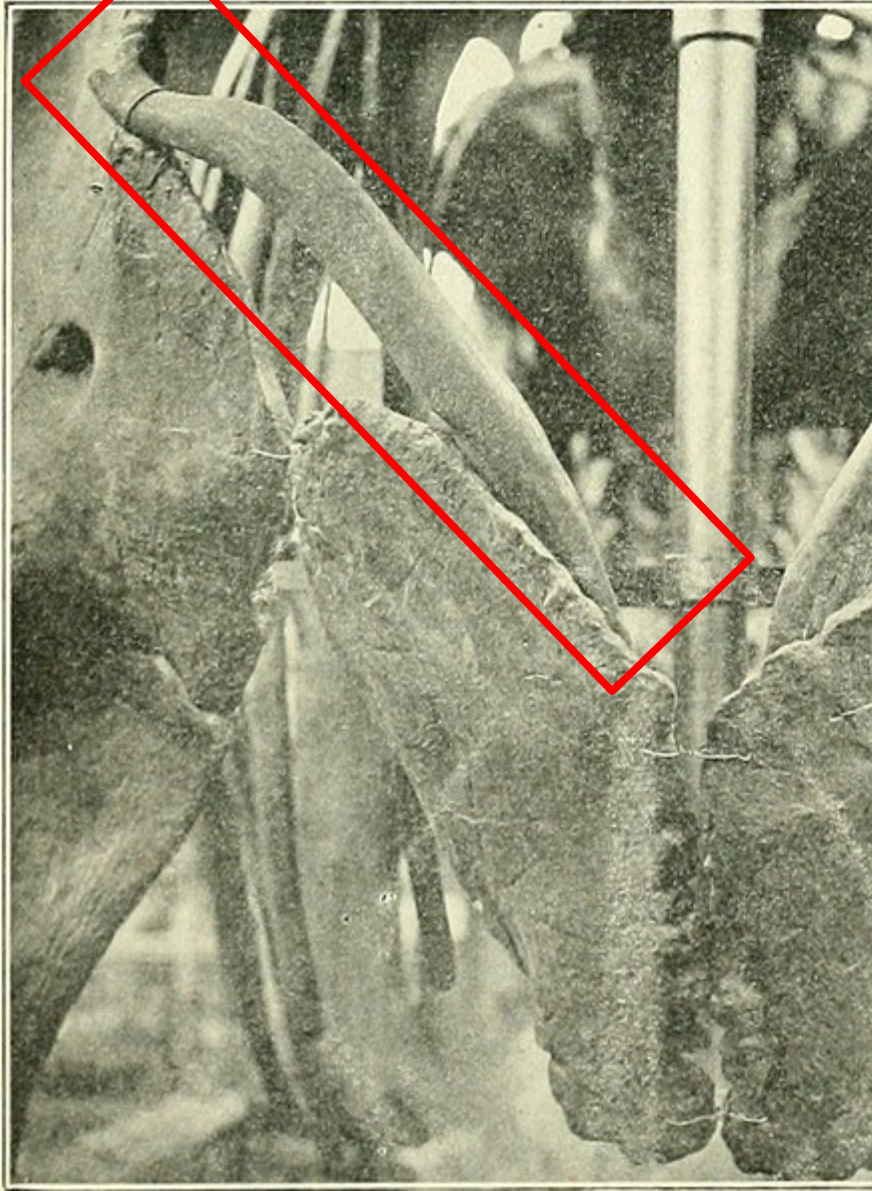
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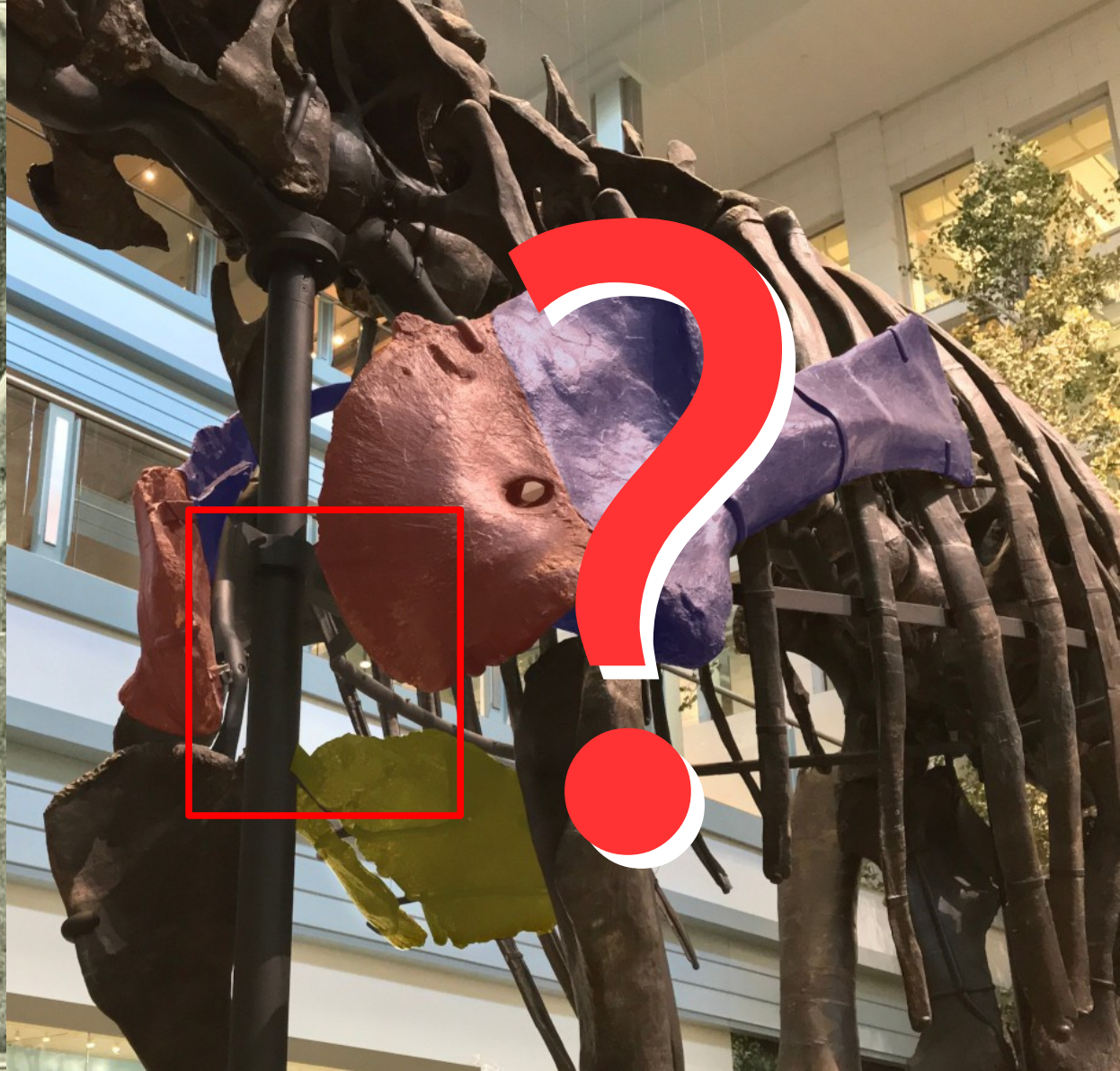
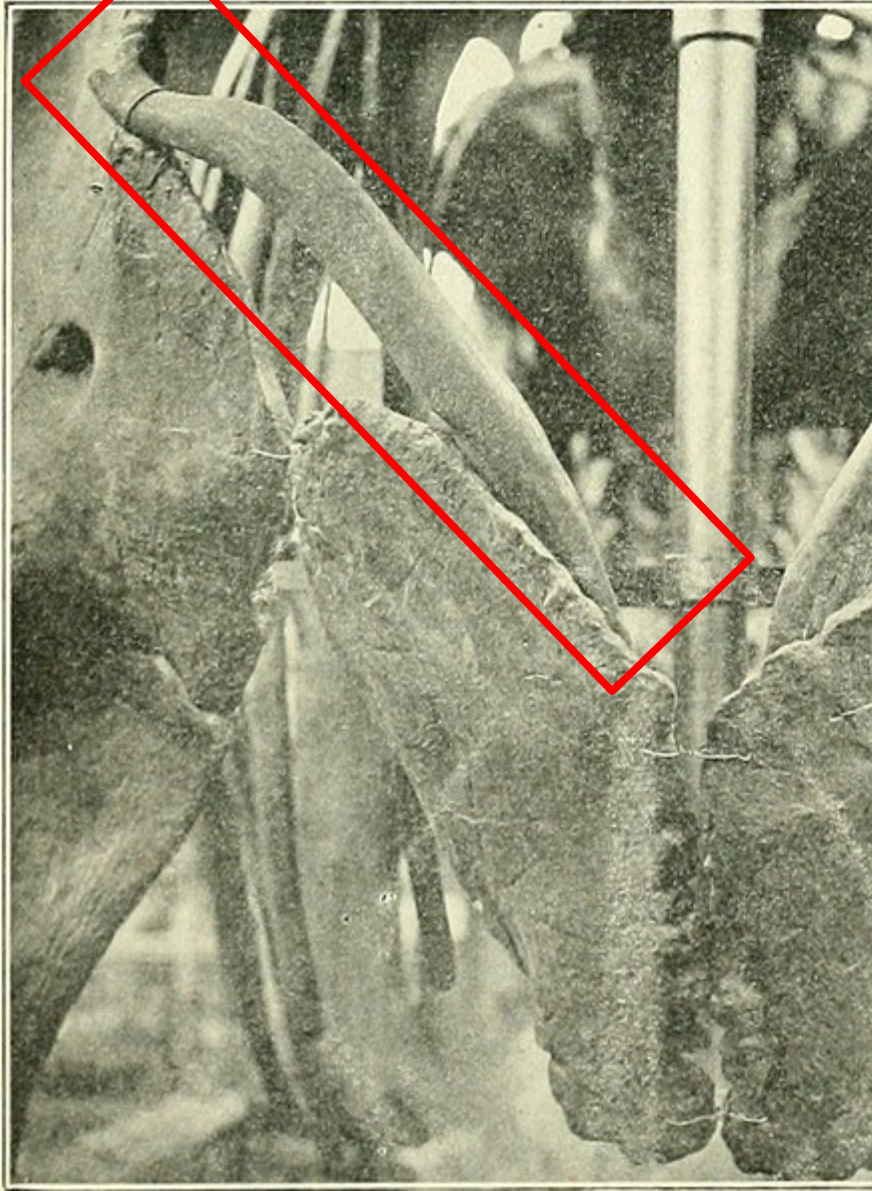












Skull replacement (between 1912 and 1947)

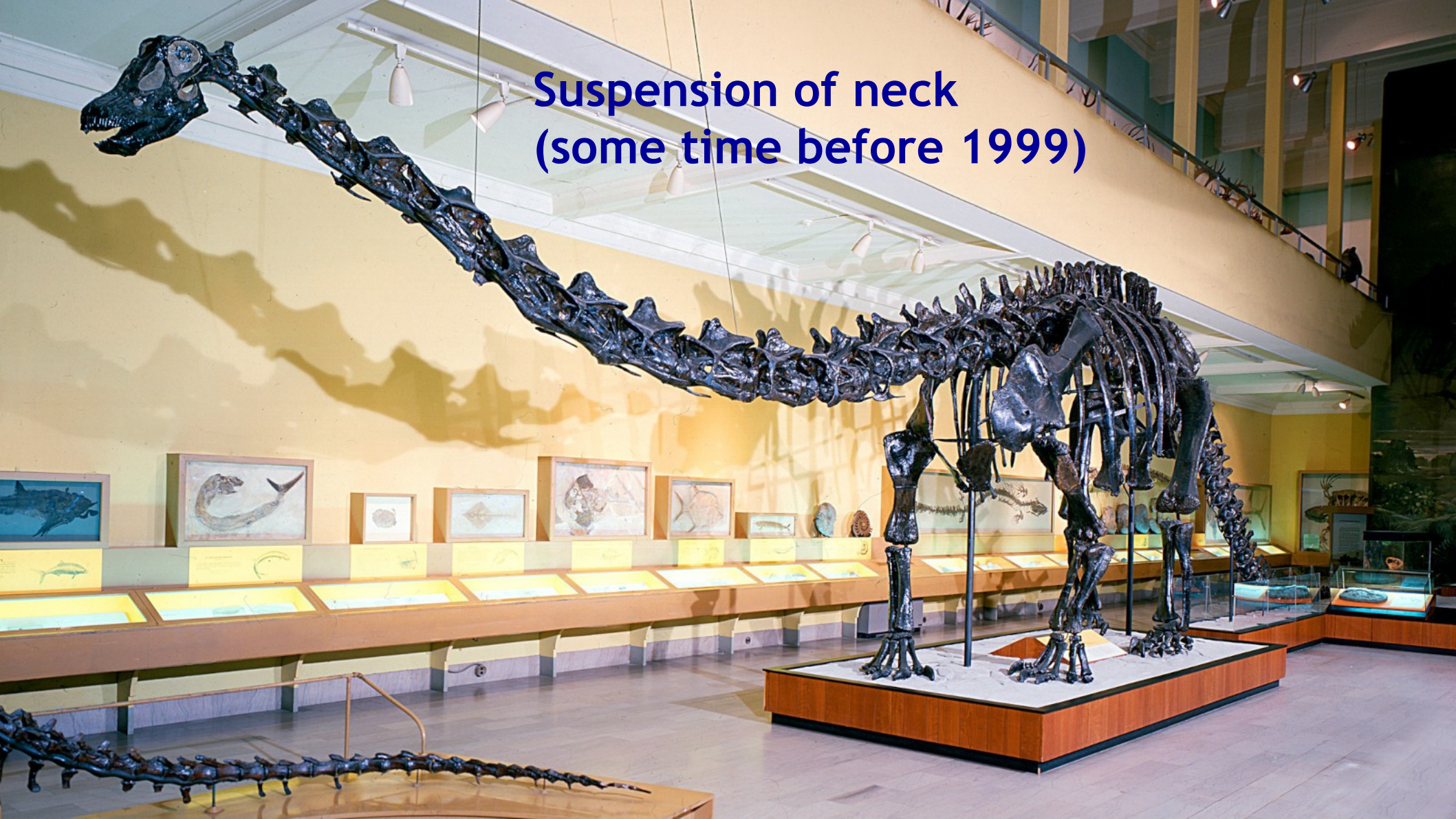
CM 662 braincase +
USNM 2673 remainder of skull



CM 11161
skull



**Suspension of neck
(some time before 1999)**



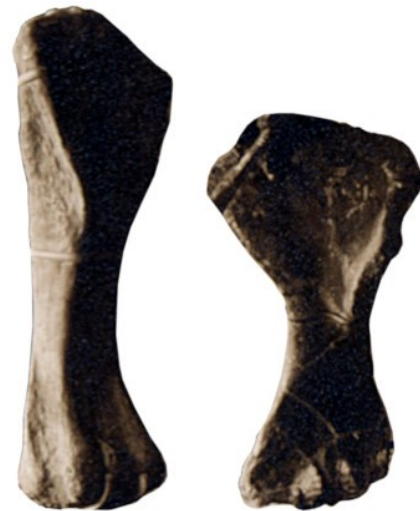
Forelimb problems



Forelimb problems

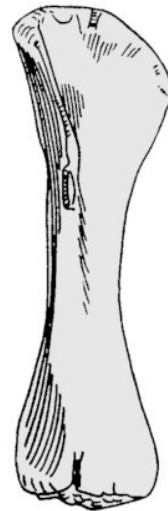


Forelimb problems



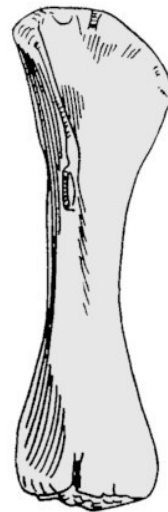
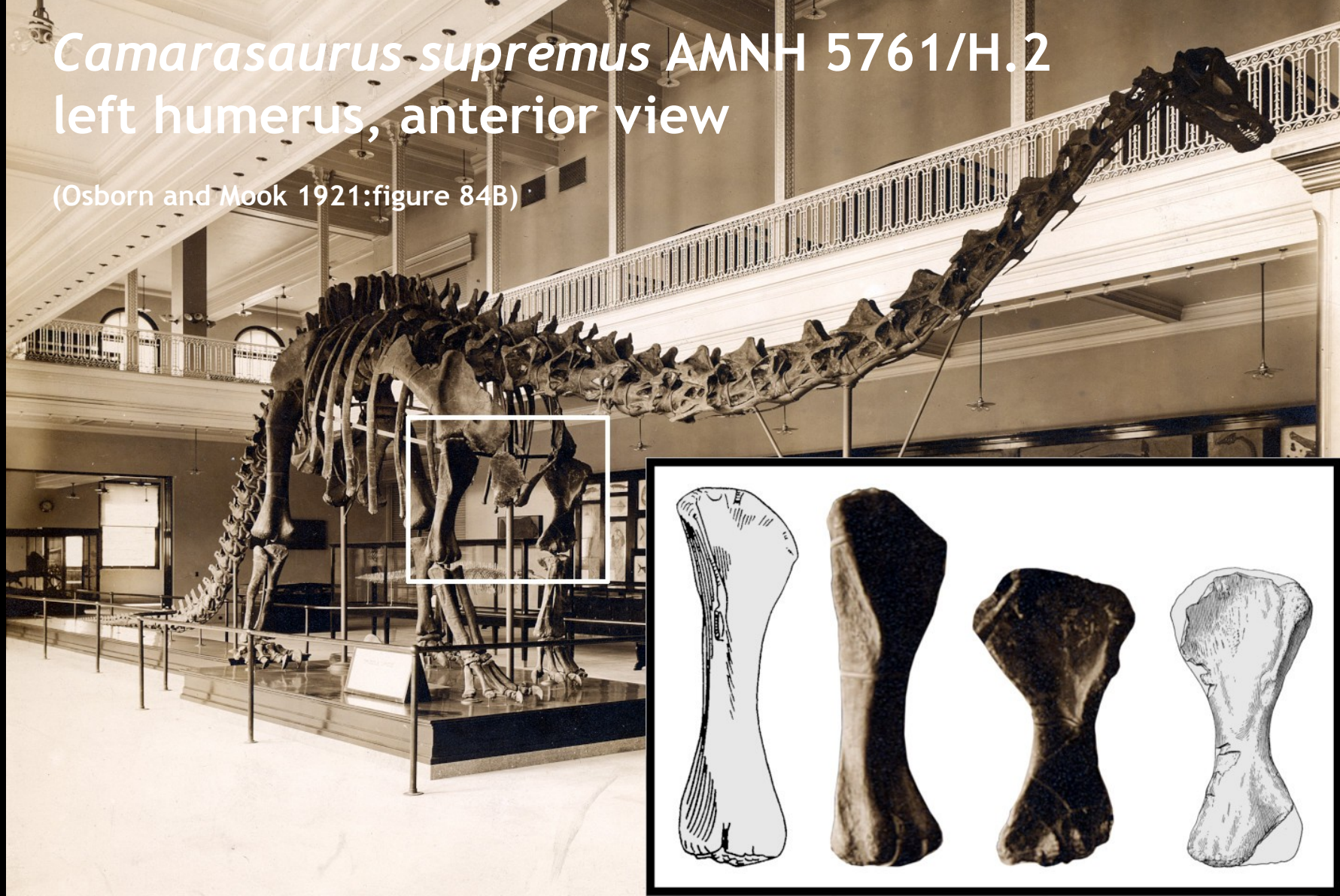
Diplodocus sp. AMNH 5855
left humerus, anterior view (reversed)

(Mook 1917:figure 2A)



Camarasaurus supremus AMNH 5761/H.2
left humerus, anterior view

(Osborn and Mook 1921:figure 84B)



Forelimb replacement from DMNS 1494?

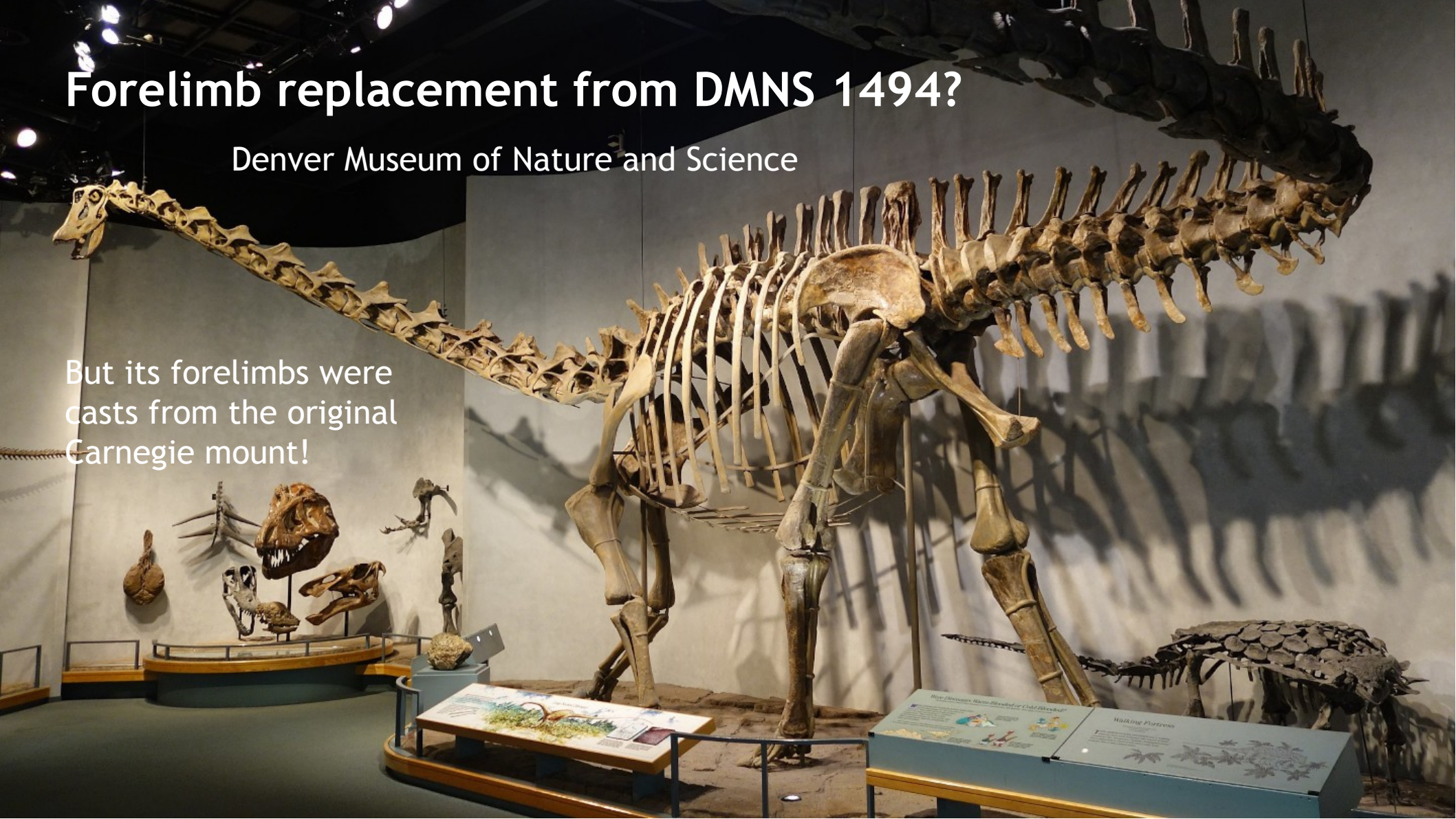
Denver Museum of Nature and Science



Forelimb replacement from DMNS 1494?

Denver Museum of Nature and Science

But its forelimbs were
casts from the original
Carnegie mount!



Forelimb replacement 2007

BYU 681 scaled sculptures



Forefoot problems



Forefoot problems



Forefoot epic part 1. Original Paris mount

AMNH 965 camarasaurid



Forefoot epic part 2. 2007 re-pose at HMN

AMNH 965 camarasaurid



Forefoot epic part 3. 1999 forefoot update

CM 662 "*Diplodocus*" *hayi*
(= *Galeamopus hayi*)



Forefoot epic part 4. 2007 remount

WDC-FS001A

Referred to *D. carnegii*
but probably not *Diplodocus*.

(From Wyoming Dinosaur Center.)



During remounting at Phil Fraley Productions studio, 2007

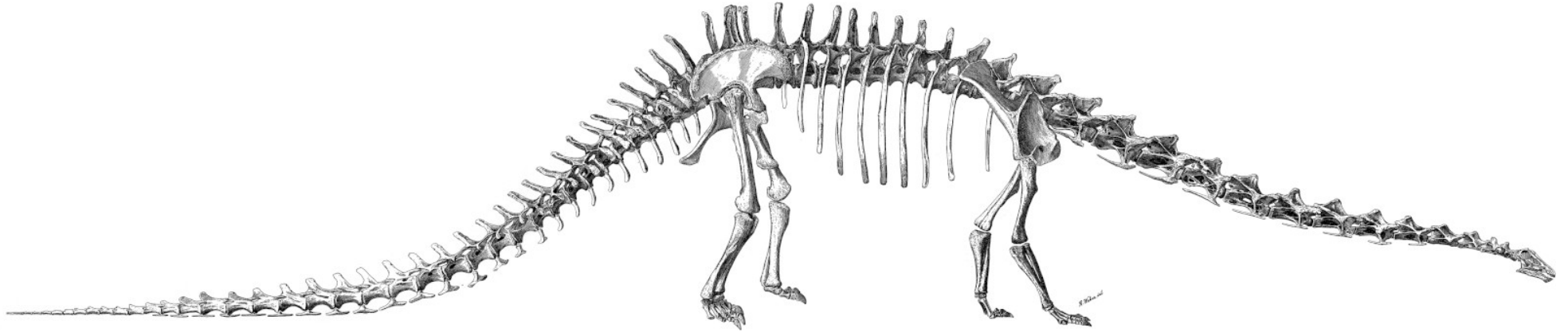




The remounted skeleton, photo in 2020

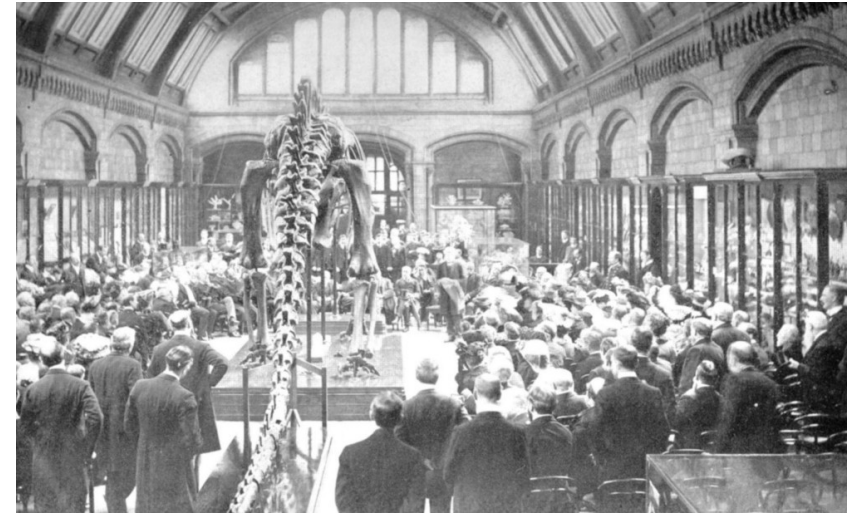
Total length of the mounted skeleton

Source	Length (feet)	Length (m)	Comments
Hatcher (1901)	68 feet	20.7 m	Tip of snout to caudal 37



Total length of the mounted skeleton

Source	Length (feet)	Length (m)	Comments
Hatcher (1901)	68 feet	20.7 m	Tip of snout to caudal 37
Holland (1904a)	78-80 feet	21.3-24.4 m	London mount, predicted
Holland (1904b)	84-85 feet	25.6-25.9 m	London mount
Holland (1904b)	78-80 feet	21.3-24.4 m	London mount
Holland (1905)	84 feet	25.6 m	London mount
Holland (1907)	78.5 feet	23.94 m	Berlin mount.

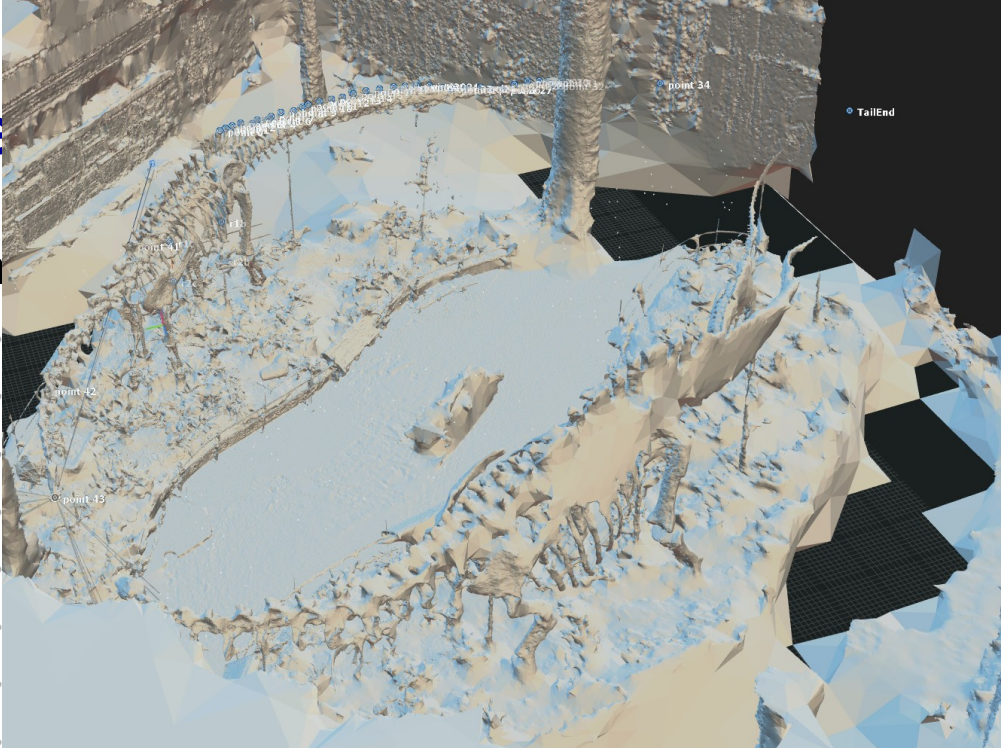


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Holland (1904b)	84-85 feet	25.6-25.9 m	London mount
Holland (1904b)	78-80 feet	21.3-24.4 m	London mount
Holland (1905)	84 feet	25.6 m	London mount
Holland (1907)	78.5 feet	23.94 m	Berlin mount.
Untermann (1959)	76 feet	23.2 m	Vernal mount
David Letasi (p.c.)	75 feet	22.9 m	Lehi elements, laid out
Vincent Reneleau (p.c.)	77 feet	23.5 m	Distance along floor

Total length of the mounted skeleton

Source	Length (feet)	Length (m)	
Hatcher (1901)	68 feet	20.72 m	
Holland (1904a)	78-80 feet	21.30 - 22.86 m	
Holland (1904b)	84-85 feet	25.60 - 25.91 m	
Holland (1904b)	78-80 feet	21.30 - 22.86 m	
Holland (1905)	84 feet	25.60 m	
Holland (1907)	78.5 feet	23.93 m	
Untermann (1959)	76 feet	23.17 m	
David Letasi (p.c.)	75 feet	22.86 m	
Vincent Reneleau (p.c.)	77 feet	23.5 m	Distance along floor
Falkingham Photogram.	85.5 feet	26.05 m	Current Carnegie mount



Total length of the

Source

- Hatcher (1901)
- Holland (1904a)
- Holland (1904b)
- Holland (1904b)
- Holland (1905)
- Holland (1907)
- Untermann (1959)
- David Letasi (p.c.)
- Vincent Reneleau (p.c.)
- Falkingham Photogram.
- Eye-Bot LIDAR

Le	68		
	78		
	84		
	78		
	84		
	78		
	76		
	75		
	77 feet	25.5 m	Distance along floor
	85.5 feet	26.05 m	Current Carnegie mount
	85 feet, 9 in	26.13 m	Current Carnegie mount



Total length of the mounted skeleton

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Falkingham Photogram.	85.5 feet	26.05 m	Current Carnegie mount
Eye-Bot LIDAR	85 feet, 9 in	26.13 m	Current Carnegie mount

Consensus: old mount about 23 m, new mount 26 m.

Casts were sent around the world in the early 1900s.

Natural History Museum	London	England	12 May 1905
Museum für Naturkunde Berlin	Berlin	Germany	13 May 1908
Muséum National d'Histoire Naturelle	Paris	France	15 June 1908
Kaiserliches und königliches naturhistorisches Hof-Museum	Vienna	Austria	24 September 1909
Giovanni Capellini Museum for Paleontology and Geology	Bologna	Italy	27 October 1909
The Imperial Museum	St. Petersburg	Russia	Early July 1910
Museo de La Plata	La Plata	Argentina	1912
Museo Nacional de Ciencias Naturales	Madrid	Spain	2 December 1913
Museo de Paleontología (UNAM)	Mexico City	Mexico	1930
Staatssammlung für Paläontologie und Geologie	Munich	Germany	1934 (never mounted)

We've already seen the London cast (1905)



The Berlin cast (1908)



The Paris cast (1908)



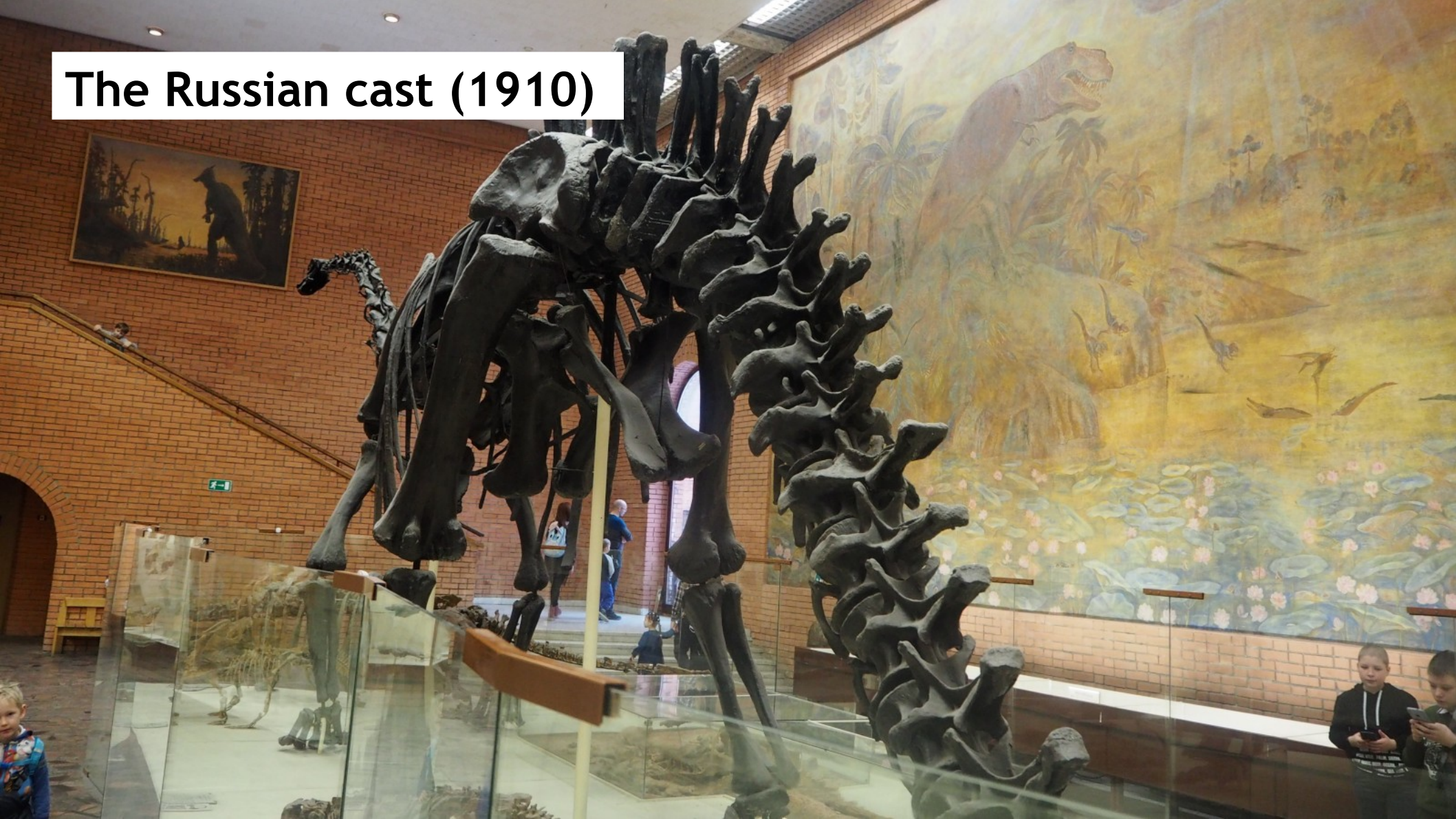
The Vienna cast (1909)



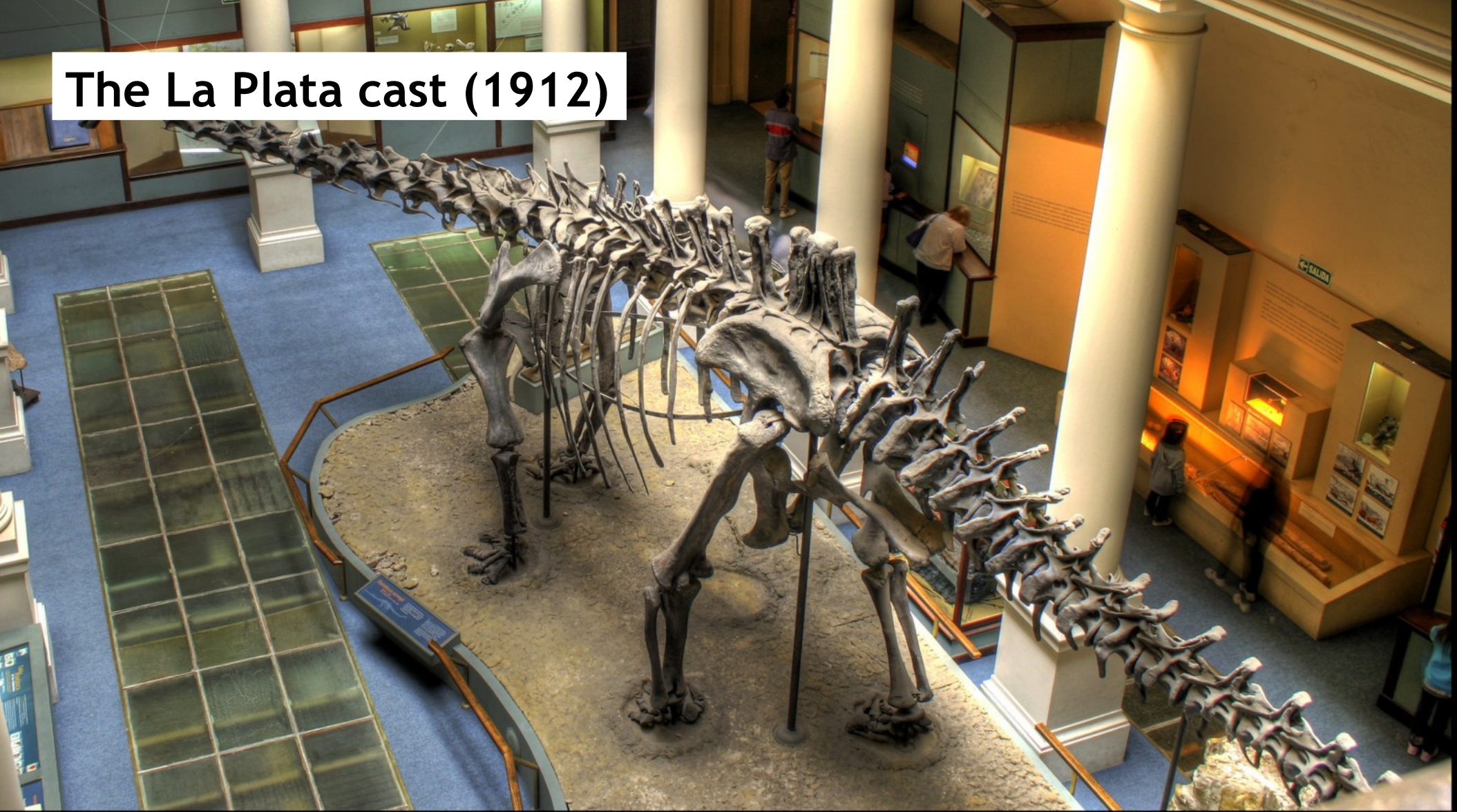
The Bologna cast (1909)



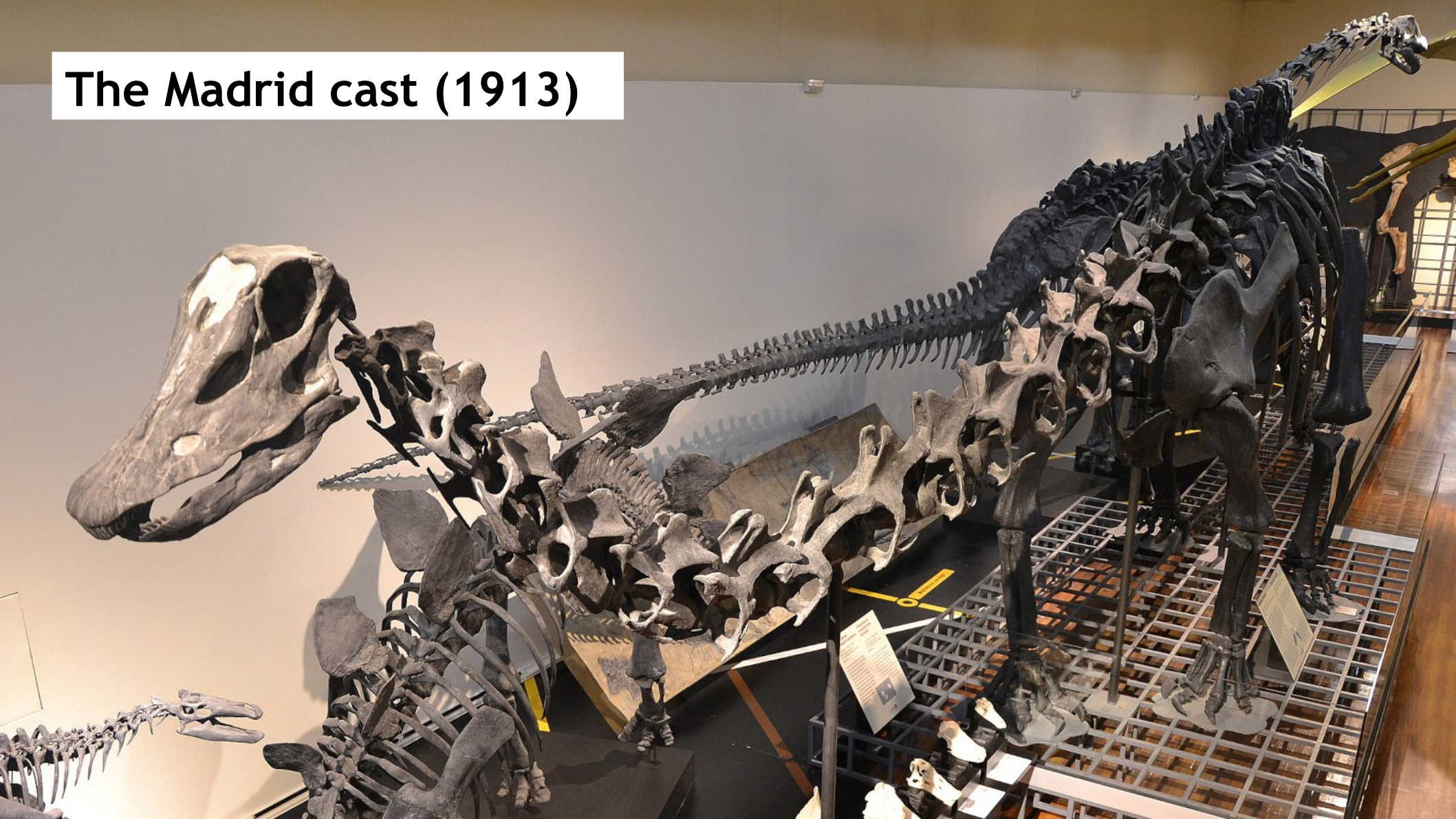
The Russian cast (1910)



The La Plata cast (1912)

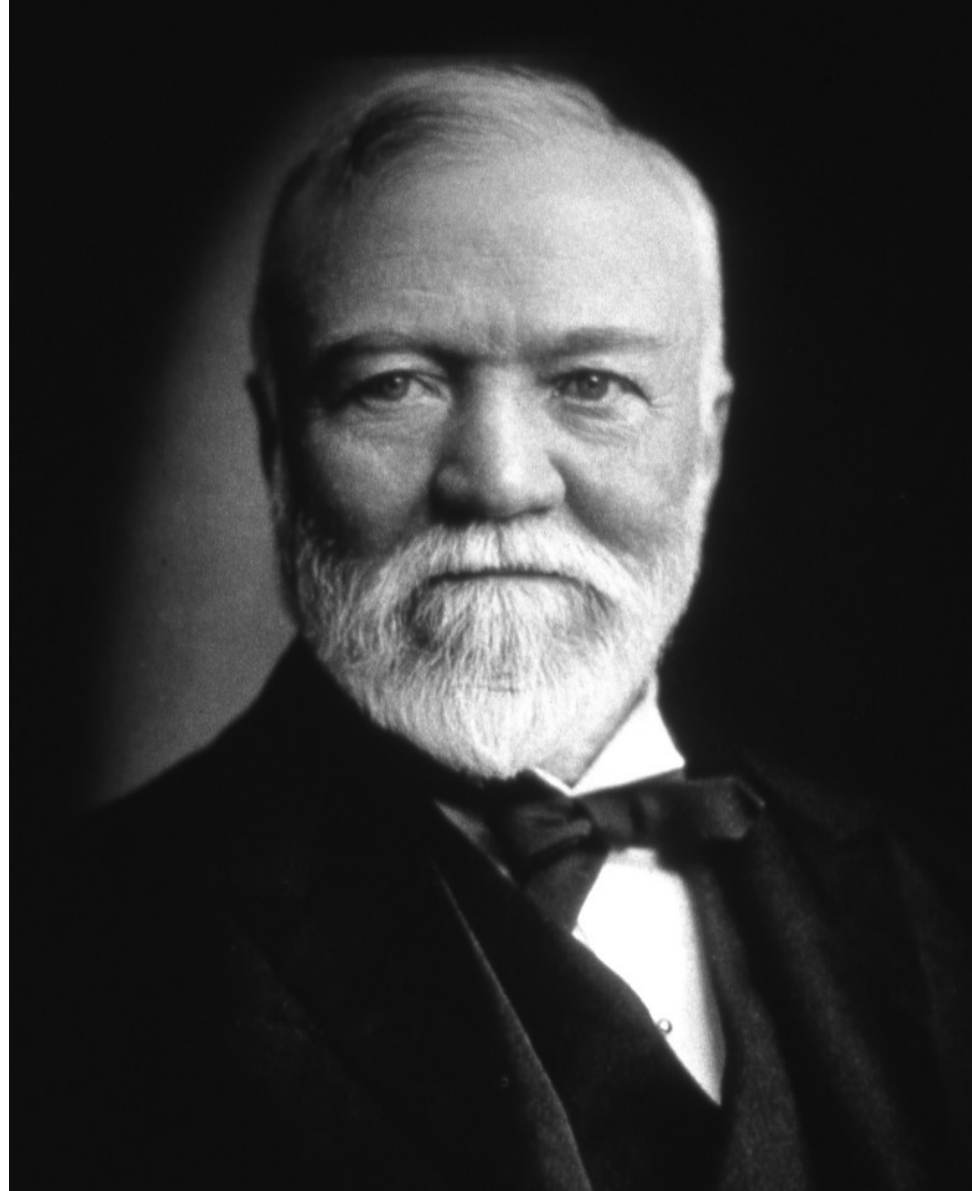


The Madrid cast (1913)

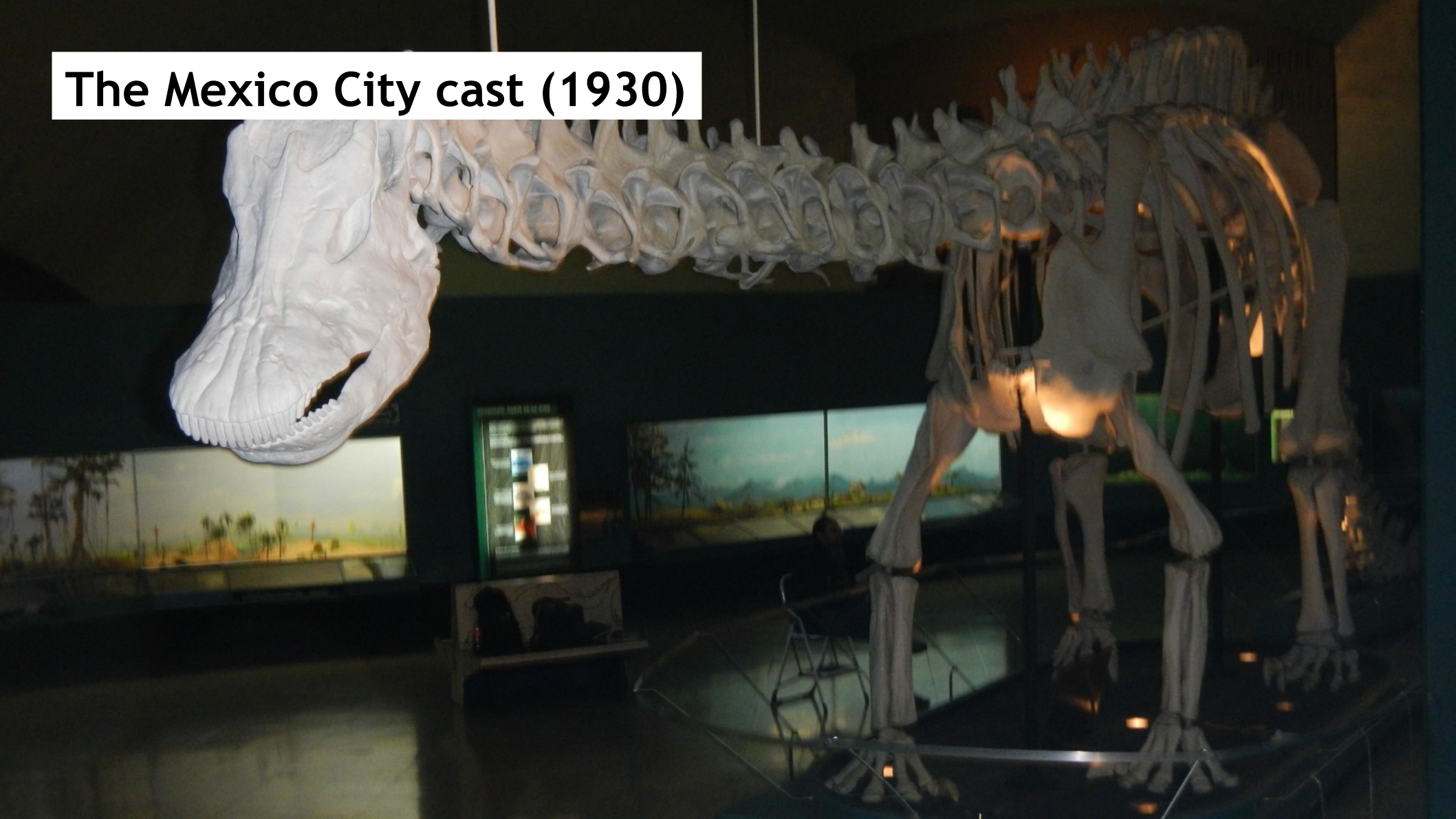


Carnegie died in 1919

Broken by the outbreak of WWI.



The Mexico City cast (1930)



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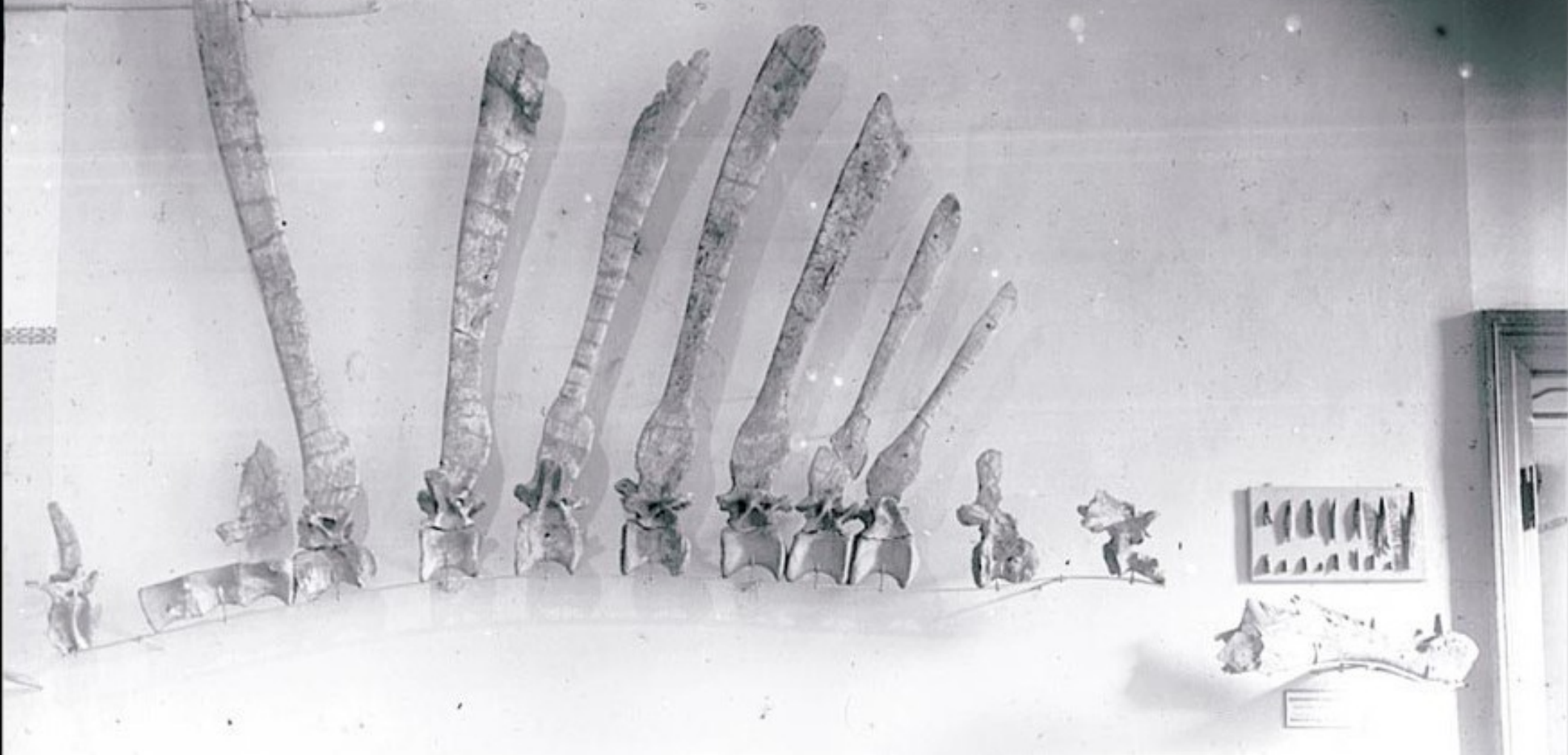
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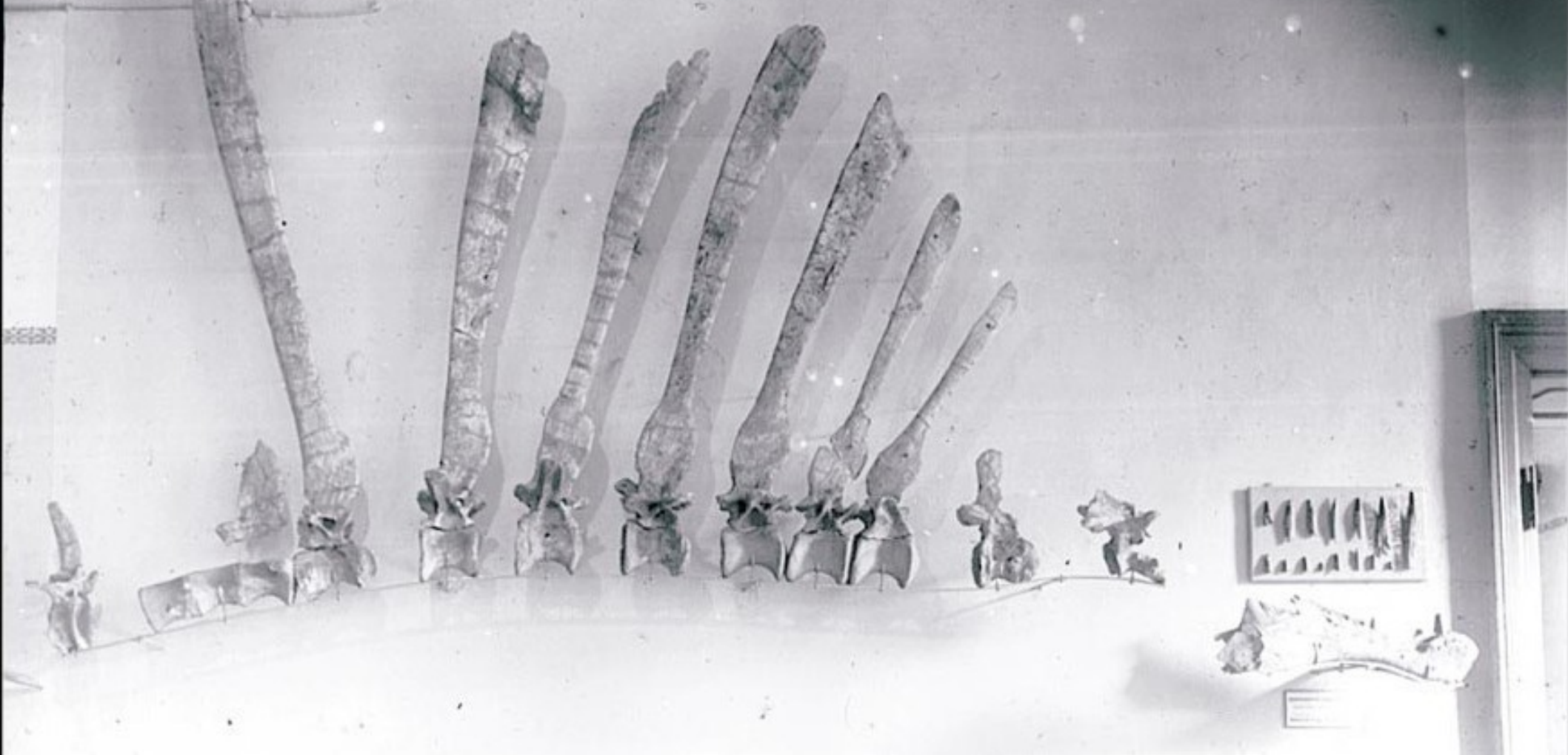
1934 was
not a great
time in
Germany



Spinosaurus aegyptiacus holotype BSP 1912 VIII 19



Spinosaurus destroyed by allied bombs in April 1944



Diplodocus taken to abandoned convent



Diplodocus taken to abandoned convent



... and the documentation lost



Hippie parties in the 1960s



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Staatssammlung für Paläontologie und Geologie	Munich	Germany	1934 (never mounted)

**Molds unused
since
1930 or even 1910.**

Episode IV: A New Hope

In 1952,
Carnegie curator
LeRoy “Pop” Kay
donated the molds
to the Field House
in Vernal.



Untermanns

Ernest Untermann,
Museum Director.

— and —

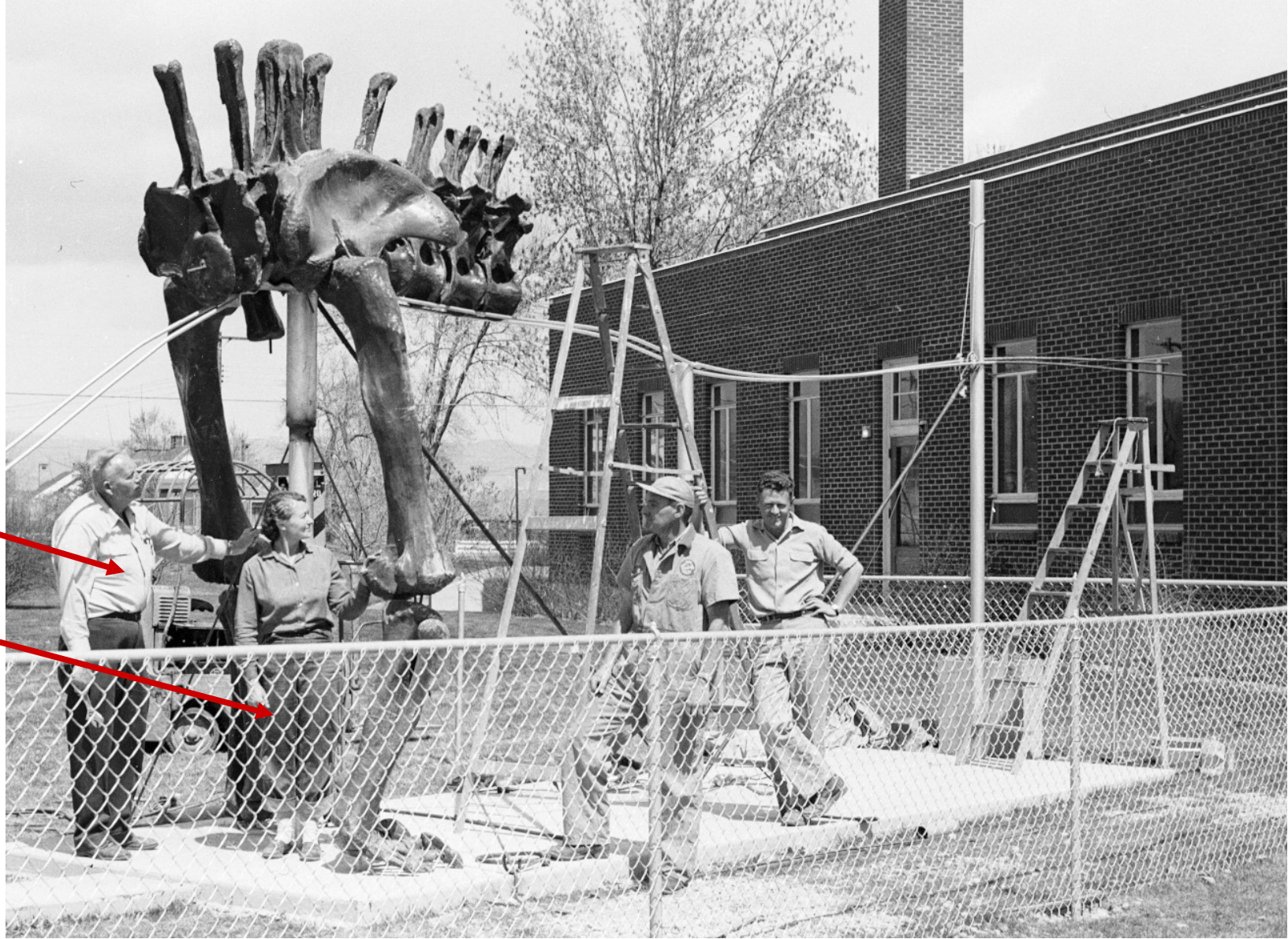
Billie Untermann,
Staff Scientist.



Assembling the concrete cast

Ernest

Billie



Assembling the concrete cast



Cultural
icon of
Utah

1957-89



Dippy Draws 'Dudes' by 'Thousands, Boosts Tourist Travel to Museum

G. Ernest Undermann,
Vernal Express
19 December 1957.

Dippy Draws 'Dudes' by 'Thousands, Boosts Tourist Travel to Museum

Without benefit of seductive curves or a “come hither look”, “Dippy” the 76 foot long skeleton of the dinosaur *Diplodocus*, standing out on the lawn on the Utah Field House of Natural History, dazzles and delights the tourists, known to the trade as “dudes”.

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As a motorist pulls up to the curb, father hardly has time to set the brake, before the entire family erupts from the car and dashes across the lawn to charge Dippy amid gleeful squeals.

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Dippy is the most photographed object on U.S. Highway No. 40, between Salt Lake City and Denver. Although he was “born” only six months ago he had already been photographed thousands of times and has been the subject of as many as seven different camera fans at one time.

G. Ernest Undermann,
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Dippy Draws 'Dudes' by 'Thousands, Boosts Tourist Travel to Museum

Without benefit of seductive curves or a “come hither look”, “Dippy” the 76 foot long skeleton of the dinosaur *Diplodocus*, standing out on the lawn on the Utah Field House of Natural History, dazzles and delights the tourists, known to the trade as “dudes”.

As a motorist pulls up to the curb, father hardly has time to set the brake, before the entire family erupts from the car and dashes across the lawn to charge Dippy amid gleeful squeals.

Dippy is the most photographed object on U.S. Highway No. 40, between Salt Lake City and Denver. Although he was “born” only six months ago he had already been photographed thousands of times and has been the subject of as many as seven different camera fans at one time.

G. Ernest Untermann,
Vernal Express
19 December 1957.

1960s: where will the molds go next?

Inquiries from various countries



1960s: what next for the molds?

Inquiries from various countries

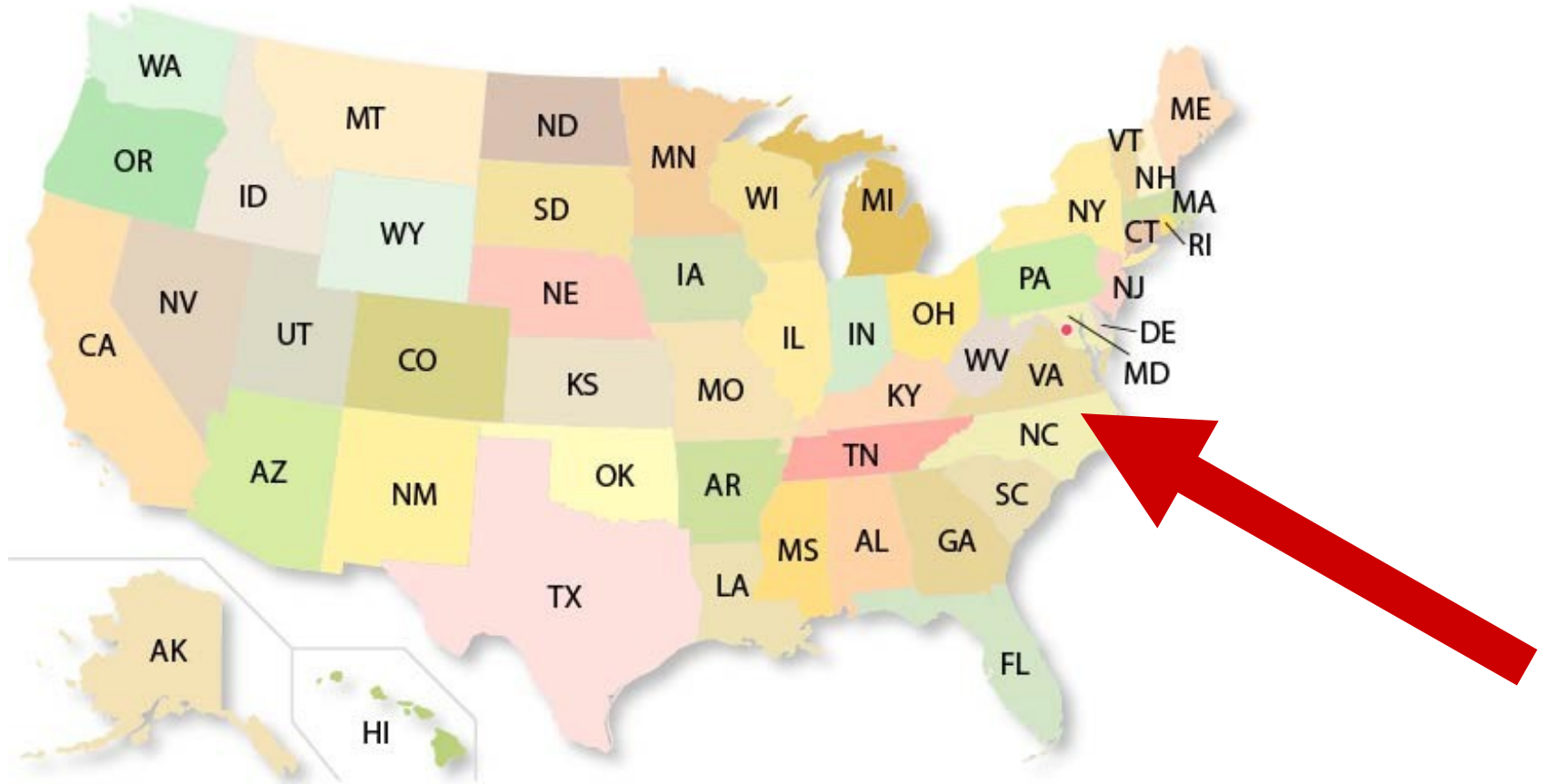


1960s: what next for the molds?

Inquiries from various countries



Shipped to Rocky Mount, NC.



Shipped to Rocky Mount, NC.



What next for the molds? (1968)

Q. What happened to the giant concrete dinosaur project at Sunset Park? — E.E.A.

A. There is no positive answer concerning the future of this project. The project was originally announced in 1959 when Harold Minges, then a director of the Children's Museum, took it as a personal project.

He got the many molds necessary to construct the bone structure of the dinosaur from Utah where a copy of the dinosaur had been built. The molds were trucked back to Rocky Mount where they were stored. They are still on loan.

Minges said, "The project was delayed for several years for one reason or another. The molds now are stored in the old Avalon Airport building on NC 97 East. We expect to resume work on the project in the spring."

An ignominious fate for the molds?

Peter H. Laraba, Curator
Utah Field House of Natural History State Park
235 East Main
Vernal, Utah 84078

Dear Mr. Laraba :

In responce to your letter of August 21, 1985 I have gather all the information possible on the Diplodocus molds. Unfortunately we do not have the molds nor do I know where they went after they left the Children's Museum. I also want to apologize for the time this response has taken to get to you. I am the "New" Director here just having started three weeks ago so please understand the delay.

The molds have been traced
to Houston!



The molds have been traced
to Houston!

Arthur Pugh

RETURN TO
CHRONICLE FILES

historicismimages.com
hcb30179

MON JAN 20 1989

Sal or Sum ~~to~~
The Head Bone Connected to

Arthur Pugh

7 1/2 + 10 picas
(mug)
w/ maxine
wed.
Texas

WED OCT 25 1973

RETURN to:
CHRONICLE FILES

69-1-216

76

Photo by Tom Colburn, Chronicle Staff

SUN JAN 19 1969

THE HEAD BONE CONNECTED TO . . .

Arthur Pugh of the Houston museum consultant firm bearing his name holds the first cast of a dinosaur head made from molds he has acquired. The molds, made from a dinosaur skeleton found in 1903, will be used to cast a skeleton replica for the Houston Museum of Natural Science. Also to be used in the reconstruction are 65 bones now owned by the museum. The whole skeleton contains 627 bones. Pugh estimates it will take 18 months to two years to complete the project. He first plans to cast a skeleton for the Rocky Mount, N.C., museum.

WED OCT 24 1973

PUGH

The molds have been traced
to Houston!

Photo by Tom Colburn, Chronicle Staff

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The molds have been traced
to Houston!



1989: concrete cast crumbling

The Vernal climate ranges from
-40°F to 100°F (-40°C to 38°C).

By the late 1980s it was coming apart.



Episode VI: The Return of the *Diplodocus*

In 1989, new molds were made from the concrete cast.



AGREEMENT

THIS AGREEMENT, is entered into effective June 30, 1989, by and between DINOLAB, INC., a Utah corporation [hereinafter referred to as "DINOLAB"], THE STATE OF UTAH, by and through the UTAH FIELD HOUSE OF NATURAL HISTORY STATE PARK [hereinafter referred to as "the State"], and THE CARNEGIE MUSEUM OF NATURAL HISTORY [hereinafter referred to as "The Carnegie"].

RECTALS

The Carnegie originally authorized 11 replicas (10 plaster and 1 concrete) of a Diplodocus skeleton (the original skeleton remains in The Carnegie's possession), one of which is now owned by the State. The State's replica is now in need of repair but The Carnegie no longer has the molds. DINOLAB has agreed to undertake to repair the State's concrete replica and to make an

1994: Lightweight cast at the old Field House, Vernal



1994: Lightweight cast at the old Field House, Vernal



2004: Lightweight cast moved to the new Field House



Other second-generation casts

These now inhabit
Japan (five copies)
Canada,
and several locations
in Florida.



What happened to the concrete cast?

Ten years in collections
at the Prehistoric Museum
in Price, Utah.



What happened to the concrete cast?

Currently on exhibition at the Prehistoric Museum in Price, Utah



What happened to the concrete cast?

Currently on exhibition at the Prehistoric Museum in Price, Utah



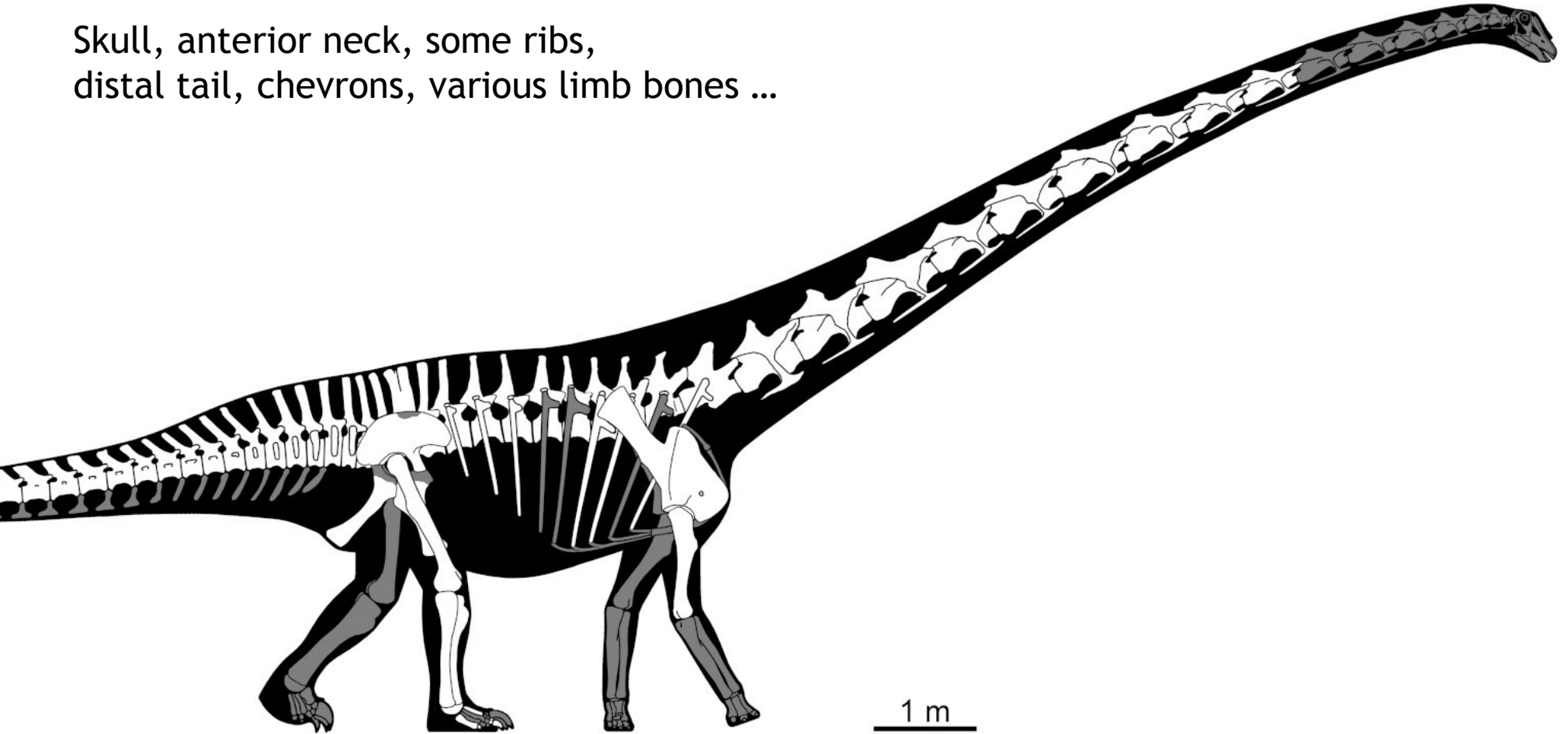
... and finally ...

Elements cast from these molds are used
in other mounts



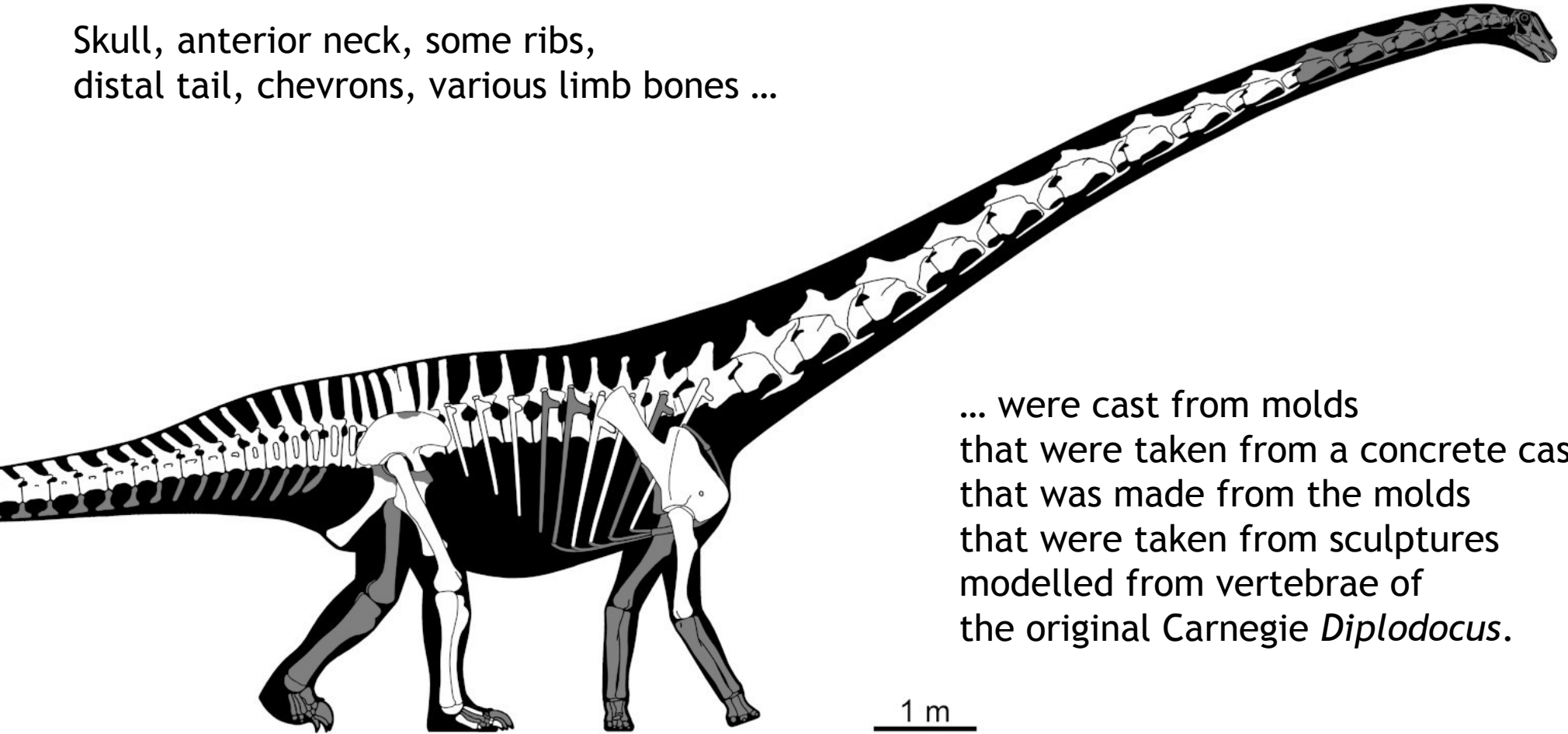
The AMNH's rearing *Barosaurus*

Skull, anterior neck, some ribs,
distal tail, chevrons, various limb bones ...



The AMNH's rearing *Barosaurus*

Skull, anterior neck, some ribs,
distal tail, chevrons, various limb bones ...



... were cast from molds
that were taken from a concrete cast
that was made from the molds
that were taken from sculptures
modelled from vertebrae of
the original Carnegie *Diplodocus*.

For much, much, much more information ...

Taylor, Michael P., Amy C. Henrici, Linsly J. Church, Ilja Nieuwland and Matthew C. Lamanna. 2025. The history and composition of the Carnegie *Diplodocus*. *Annals of the Carnegie Museum* **91**(1):55-91. doi: 10.2992/007.091.0104

Taylor, Michael P., Steven D. Sroka and Kenneth Carpenter. 2023. The Concrete *Diplodocus* of Vernal — a Cultural Icon of Utah. *Geology of the Intermountain West* **10**:65-91. doi:10.31711/giw.v10.pp65-91

The skeletal reconstruction of *Barosaurus lentus* in the American Museum of Natural History. In prep. Taylor, Michael P., Peter May, Lowell Dingus, Eugene S. Gaffney, Mark A. Norell and John S. McIntosh†. Manuscript and illustrations at <https://github.com/MikeTaylor/palaeo-baromount>

The Untold Story of the Carnegie *Diplodocus*

Mike Taylor^{1,*}, Matt Lamanna², Ilja Nieuwland³,
Amy Henrici², Linsly Church², Steve Sroka⁴ and
Ken Carpenter⁵

1. University of Bristol, Bristol, UK
2. Carnegie Museum of Natural History, Pittsburgh, PA, USA
3. Royal Netherlands Academy of Arts and Sciences, Netherlands
4. Utah Field House of Natural History, Vernal, Utah, USA
5. University of Colorado Museum, Boulder, Colorado, USA



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All these co-authors!



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ДИПЛОДОК

Diplodocus longicollis Marsh.
Местонахождение: южная часть Северной Америки.

Диплодок — один из крупнейших динозавров, живших в юрском периоде. Его длина достигала 30 метров, а масса — 10 тонн. Он был травоядным животным, питавшимся растениями. Его длинная шея позволяла ему достигать верхушек деревьев. Диплодок был обнаружен в 1878 году в Северной Каролине.

ПОДСОПОРНЫЕ ДРЕВЕСИНЫ

Сосна	Ель
Лиственница	Пихта
Кедр	Секвойя
Тис	Вельямовичия
Мирт	Араукария
Мелалеука	Бальзамит

ИСТОРИЯ ДИНОЗАВРОВ