

shaken down in distant cities. explosion of Krakatoa in 1883 would woman with the bloomers by appear- earth's atmosphere during the show- Above-How one heavenly visitor, the meteor Ahnighito, compares with a tail man. Below-Photograph of Willamette meteor, the 151/2-ton specimen be a mere nothing in comparison, yet

"heavenly twins" of New York, who midnight. It is estimated that fully 20 years ago, first introduced the 160,000 meteoric masses fell into the ing on a tandem clad in those ideal er. They all came from a point in articles of apparel for the cycle path. the sky near the bright star Gamma While the man in the street con- of the constellation Andromeda. templates the possibility of the proximity of Biela's comet with a sneak- rain of "Bielids," so-called because sumption the Mazapii meteorite can about two-tenths of a pound is kept swarm of rocks and chunks of metal cal discharges also take place partly ing feeling of dire happenings, the their orbit has been identified with be asserted to belong to the shower in the Natural History Museum at widely separted from each other, because of the presence of material 3.5 the density of water and of about cold and calculating scientists, such the orbit of the former comet of of Bielids. as Curator of Geology E. O. Hovey of Bicla. During the display of 1855 a up weighed 8.7 pounds. It consists to realize that this small sheet of sun's fires, it is reasonable to as-perature. With all of these forces the atmosphere at a velocity of all the museum, count much on a lucky flery mass larger than the other of iron and nickel in which are en- iron cut from the meteorite is per- sume that continued repetitions of at work and with the attraction ex- miles a second, the sudden heat dearrival that may furnish more op- shooting stars plunged with an ex- crusted small masses of graphite. haps a "clipping" nipped from Biela's such violent conditions will eventual- crted by other bodies, by the planets veloped amounts to 4,397,000 calories.

comets now at the museum, which are path. reproduced on this page.

one of the best proofs that a comet is largely composed of small bodies, fragments of stone and iron. On February 27, 1827, Biela discovered a comet which was found to be identical with that of 1772 and 1805. It was not one of the largest comets, but its periodic returns were watched with much interest. In the return of 1832 great excitement, was caused by the announcement that the head of I'm ashamed." Biela's comet would occupy the plane her. people thought a collision with the acceded. "It never would be poor dead." ody was inevitable, and an extraordinary sensational comet scare pregot to the place. By that time a dis- it at all is Ruth." tance of fully 50,000,000 miles would

Nothing unusual happened until theaters and concerts, and," comet suddenly split in two. By eyes flashing: February the two separate comets "John had drifted 149,000 miles apart! A girls?" sort of filmy bridge of light con-

nected the two bodies. In September, 1852, Biela's "twins" "They're satisfied." came back to visit us. By this time "And you're not," she returned husband, with unblushing banality, they were 1,250,000 miles apart, There quickly. "That's the difference. Why He walked to the door and open had been no apparent reason for the don't you go yourself?" splitting of the comet into two separate masses, and the event ranks manded. with astronomical mysteries. Strangtime of their next favorable return. it, you're blind."
But they failed to appear, and a vain "I do see it." he cried. "I have seen

This fact prevents the com- graphite and the other of which is comet!-

The mass when picked New York city. It is strange indeed but brilliantly incandescent with the subjected to the extremes of tem eight inches diameter plunges into portunity for meteorological investi- plosion into the atmosphere. Unfor- Pure carbon exists in meteors in comet. Think of being able to held by cause the comet to be dispelled and the sun, the life of a comet is to At the height of less than 9.5 miles gation than the mighty sections of tunately no one recorded its exact two natural forms, one of which is in one's hand a piece of sure-enough into space. The material of the me-

now at the American Museum of Natural History. Note the boys snugly stowed in the "pocks" of the meteor. tainty claimed as a part of Biela's ly in the form of graphite. A frag- tion of the mass. If the head, or set free. Particles are blown away can't explosion were felt around the "Blela's" began as a comet, and is mass which reached the ground at small diamonds are found. In the a cometary wanderer to the domain slight increase of temperature. As a scopic objects.

In 1885 there was another brilliant lost comet. But with reasonable as- ment of the original mass weighing nucleus of a comet, is composed of a by the pressure of sunlight. Electri- worldteorites contains imprisoned gases returns to perihelion. The short pe- about half a mile a second. This is plete identification of the meteoric the diamond. In some meteors very There is evidence that the return of which are quickly liberated under a riod comets are generally mere tele- how the atmosphere saves us from

the fury of these ordinary bullets and Mazapil, Mexico, from being with cer- Mazipil meteorite the carbon is chief- of the sun brings about a disintegra- comet nears the sun its gases are Biela's comet new is probably torpedoes from outside space. As all eyes turned upon him no one shamelessly you intruded on our marfalled to be impressed by the earnest- ried life, robbing us of our time (a ness of his tone. Standing in the valuable commodity at our age) and midst of his family, he towered head of our privacy. It's appalling to think

is exploded in it. Houses would be

the atmospheric waves of this vol-

If a meteoric stone having about

the American Museum of Natural history, examining a piece of Biela's

This fact has led to the drilling of

It probably today consists

THREE--BY ETHEL

"I offered it to Jim next," he told thought it had come too late."

"It's got to be Peter or nobody," he admiration. "What a wonderful wo- They were thunderstruck, returned. "That's what's been both- man you are!"

All and the peter or nobody," he admiration. "What a wonderful wo- They were thunderstruck. Mary was the first to re ering me. Mary won't budge any "Pooh!" she retorted. "I'm not sac- self somewhat. the comet would occupy this posi- more than Elizabeth will. The only rifleing anything. I'm just as crazy tion about a month before the earth one of 'em that's willing to consider as you are to get away."

tance of fully 50,000,000 miles would "Willing to consider it!" cried his they executed a few dance steps up citement: "It's impossible. It can't be separate us from a possible collis on, wife, amazed. "As if it wouldn't be and down the room. But a series of remarkable events the most wonderful thing that could were to follow. In 1845 the orderly happen to any one! To move to Chireturn of "Biela" was observed and cago and see all those great houses every telescopic eye was turned upon along the lake, and go to all those the following January, 1846, when the ceased for lack of breath. Then, her

> "John, what's the matter with our of molluses," he returned bitterly, pose."

"Do you really mean that?" he de-"I should rather think I did mean Your mother has something to say, er thangs were yet to happen. The it," she returned. "Why, it's the

you that's been holding me back. I've was playing upon her hair, lieved it of her. I'm surprised at her. been waiting all my life for the op"Tell portunity to get out of here, but I Ruth.

"Janet!" he exclaimed in unfeigned a sensation if she had said Timbuctoe.

Releasing her he asked suddenly: "What'll the girls say?"

She tossed her head "They can say what they please," At this crucial moment they heard

footsteps and voices outside. "There they are now!" exclaimed Mrs. Farnam. "Wouldn't you know "The matter is that they're a bunch it? Come to say good-night, I sup-

"Speak of angels-" muttered her He walked to the door and opened

"Back again?" he inquired blandly. "Well, well-come right in, all of you. "To us?" asked Elizabeth, puzzled. twins were eagerly looked for at the chance of a lifetime! If you don't see "Why, we've only just left her! What clared Mary.

Her mother's face was sparkling,

"Tell us your good news," urged aren't they?"

"I'm going away," said Mrs. Far- swered. "They have their own par-"It's never too late," she retorted, nam, eagerly. "We're moving to Chi"It would be Jim, of course," she her look full of fire, "unless you're cago to open the new branch." She could not have created more of

Mary was the first to recover her-

"It's out of the question," she de- I've heard." Then, piling one tautologized He caught her round the walst and statement upon another in her ex- Elizabeth, "in any other home than paled at his implication. Ruth started be knocked down by a trolley car to-

"Why not?" her mother challenged her. "What's to prevent?" "Any one of a thousand things!" better offered," interrupted Mrs. Far-

Ruth tried. "In the first place, you'd have to leave your children behind." "That's the best part of it," inter- daughter demanded dramatically, been cramping your mother's style. posed her father, tartly, and the pith "than to die where you've lived for so She was just a mother to you-not of this remark was accentuated titters from behind three cigars. All the girls flushed resentfully.

"We didn't come here to be insulted," they declared. "Don't pay any attention to him," soothed their mother. "You know I wouldn't leave you if you were little, even for one night. You forget that "We need you just as much," de- authoritatively:

dren?"

ents. I have no real responsibility toward them." "There's your church," Mary reminded her. "You've always been so

"That's different," her mother an-

active in church work." "There are churches in Chicago hasn't had that yet, you know, even where your mother ought to dle. That too," returned her mother mildly—"so if she is nearly 60 years old. In my was a little too much. Supposing she I've heard." "I can't imagine you," declared

this. To think of you deserting it, when we were all born here and all married from here and--"

"Why should I?" "What better could offer," her many years?"

"Not by a long shot," added her that she never could make any husband, with a dangerous glint in friends. You've talked a lot about There was something in these girls his eye.

the group and, stepping forward, said

pressive and dignified old man whose joyed! words carried weight.

ing his three daughters with an in little judicious neglect! We stood all clusive and scornful glance, "you'd that-we'd have gone on standing it opinion it's high time she did."

"You didn't stay when something "It won't be my fault if you don't un. you die that matters, nor even where derstand me clearly by the time I'm you live, but how you live and Ever since you were old enough to have any say at all you've a human being. "I'm not ready to die yet," retorted in any social relations; you've kept her so surrounded with yourselves Mary doing your duty, but half of your at- after all. "This is between ourselves and tention to your mother came from a for it. I admit; they didn't see in detail what that attention consisted in; arms to them, just as she had when "Not from now on. Here's where how you dictated to her what she they were little girls. "Not quita," her mother said I come in. I've got something to should do and read and wear; how you bored her to distraction, how

"But what about your grandchil- and shoulders above them all. His of these intolerable, wasted evenings. urged Ruth. "They're little, bearing, his vitality and his height of the reading we might have done, all contributed to make him an im- the companionship we might have en-

"You always said you didn't want Before you begin to talk about to neglect us-you never realized that our mother's dying." he said, sweep- we'd have given our eye teeth for a better give her a chance to live. She if you hadn't begun to talk about were to give in to you and stay here. All three of the Farnam girls had Instead of dying in her bed she might to speak, but her father prevented morrow and draw her last breath in her by a lift of his hand. the drug store up the street. You "Don't interrupt me," he continued won't understand that it isn't where whether you live at all."

"I'm beginning to understand," she

sobned. "I am too," admitted Elizabeth

"So am I. Thank you, father," said Their father's glance softened

"If you'll only stay," promised mother, father," Elizabeth objected. desire to be pointed out as model Ruth, "everything will be altogether. At this he detached bimself from daughters in the town. People fell different from now on." Their mother stretched out her