Gha-Girland the GAME A STORY OF MOUNTAIN RAILROAD LIFE FRANK H. SPEARMAN

Little Helen Holmes, daughter of General Holmes, railroad man, is rescued from immalient danger on a scenic railroad by George Storm, a newsboy. Grown now a firman, her father, and his friends to young wominhood, Helen saves Storm, Amos Holmelander, financier, and Robert Seagrue, promoter, from a threatened celliaion. Safebreakers employed by Seagrae steal General Holmes survey plans of the out-off line for the Thiewater, fathily wound the general and escape, for the right wound the general and escape, are father's estate badly involved by his death. Helen goes to work on the Tidewater. Helen recovers the survey plans from Beagrae, and though they are taken from her, finds an accidentally made troof of the survey blueprint. Storm is omployed by Rhinelander. Spike and his confederate safebreakers stoal Rhinelander's pay roll motey. Helen pursues and, with a policeman's ald, captures two of them and recovers the money. Spike, befriended by Helen, in his turn saves her and the right-of-way contracts when Seagrue kidnaps her. Synopsis.

(Continued from Last Monday)

THE RACE FOR RIGHT-OF-WAY What to do with Spike after he had turned over h'a first leaf in the book of gratitude proved a difficulty for Helen. But it seemed to her the first thing to he attempted was to get him well away from Seagrue's influence. Seagrue, with the ample backing at his disposal, had established an elaborate construction camp well out on the desert, where he coupled with his railroad building enterforce as he dare display toward Rhine- said gruffly. lander and the men in the Copper Range & Tidewater construction work. The prize for which both roads were playing in the emendous effort of each to get ahead the other was a substantial one and you just the same, sheriff." Seagrue was never called to account at

On the morning that Helen took Spike down street to a Las Vegas clothing store, had him fitted out with new clothes and provided him with some pocket money. agrue was on his way over to his camp, ccompanied by the two strong-arms, by no more respectable names than Bill and Lug, He saw Helen on the street with Spike and watched the two to the topography of the country as well for a moment. Dispatching Bill then to the garage for his motor our and bidding Lug, on his life, not to lose sight or Spike. Seagrue, himself, hastened to the office of the local sheriff, whose interest, as precautionary measure, he had enlisted on his side the moment he reached the Explaining to this official, already

nade complacent by generous offerings, that he had on his hands a contract the little town had naturally stirred laborer who was trying to jump his jeb, every inhabitant of it to a high pitch he engaged his promise of vigorous co-operation to bring Spike to time. In aldy's head had become in some degree fact, the sheriff offered to arrest him confused as to values, and by the time at once.

"No," objected Seagree, as if he should hesitate to put a new friend to so much first put upon the property by its veteran trouble. "Don't arrest Spike. I think owner-valuations had risen and Cassidy I can handle him; but I should like you declared that he would sell for \$10,000 to be on hand to make sure. If he con- and not a cent lesk, sents to stay here and finish his work Rhinelander, considerably taken aback,

Seagrue led the way with him to the ma- wrote out his check for it. In exchange chine, which Bill had brought up, and he received Cassidy's rather uncertain George, and we will wing it in later." getting in with the sheriff Bill drove signature, on the customary legal form, for a railroad ticket which was to carry the Cassidy land as a freehold owner. Sodged his thanks as much as she could, lander. With his surveyors, Seagrue cure on the Cassidy place. she hurried into the office to prepare to hurried to the end of the work, and meet the incoming train.

Spike, in a comfortable frame of mind, hand and reflecting what an extraordinary friend Helen had been and how a quiet voice at his elbow spoke just two words into his ear:

"Hello, Spike!" Spike, who lived, as it were, at all look into the composed gray eyes of Sesgrue. He stood a moment bound by their spell. Something in them seemed to chill and wither all the good resolutions he had taken to break away for bluntly, "You know we want your propgood and all from his lawless associates and get back to the "square" as he had reasonable we're prepared to pay you a said he wanted to do.

Seagrue's face was lighted only by a sively, "nothing of that kind, but-" he pleasant smile. "Where you going, added, buttonholing the old man with Spike?" he asked in friendly fashion. It seemed to Spike as if through some and fair. I don't know what you con-

presistible force his feet were nailed to sider your property worth," he continthe spot where they rested. He looked ued, talking so fast the old man could about him with indecision, and as his not get a word in edgewise, "but I have eyes wandered he saw Seagrue beckon- written out a check here for \$15,000. And

The mere sight of a sheriff raised in old boy, is yours." pike's memory an extremely disagreeable picture.

pocket. From it he drew a worn little lander here for \$10,000." pamphlet, and after careful deliberation. held it in his hand before Spike's wavering eyes. In the black-faced type on the sider your property worth \$15,000."

Over a name and description were "Sure, I do," agreed Mike, his eyes printed, but what Spike saw staring him were the figures and the word; "\$500.00 REWARD!"

But to Spike that one line of type meant infinitely more than it could mean to any other man. Seagrue watched closely the changing

xpressions on the hunted criminal's face; he was even quiet and pleasant in his demeanor as he muttered: "You shouldn't ry to leave me, Spike. At least, not until sny you may go." Something of hatred and aversion

the man whom he had served so long and in so evil a fashion, flamed up in Spike's heart.
"Seagrue," he almost hissed, "I can end you to the chair; man-do you know

Seagrue lost none of his composure. He returned Spike's angry look undisturbed: you know what will happen when you do?" he asked in even tones. "After they lift me out of it, they'll lift you in for the next shock, Spike. When you're gely to commit stricide, I'm ready to go the straps ahead of you or after youthat's as the sheriff may prefer. ntil that moment comes, Spike"-a off. threatening intonation made itself feit with the studied utterance-"until that noment, Spike, you will take your orders

ing tactics of his enemies, saw the sit-

1-Rhinelander and the Deputies Arrive. 2-Made Out Helen's Face at the Cab Window. 3-Rhinelander Buys Right-of-Way Over Cassidy's Land. 4-Pulled Away With the Stolen Locomotive. ticket he held in his hand. He realized prise as much of fraudulent decelt and he was utterly helpless. "All right," he Seagrue shook hands with the sheriff as he followed Spike across the platform. "I don't think I'll have any trouble with him," he said in an undertone. Thank "If you do have," returned the officer his headquarters for his strategy in the to him in an aside, "just rend for me. will you? had to say, but absolutely firm in his Seagrue, laughing his thanks, got into resolve to stand on his rights, the car beside Spike and nodding to BIII "My right of way is legal," he said directed him to drive over to the comp. to both men. "And I'll bring the law With the rival construction crews, mathere right now to enforce it. ters were reaching a somewhat critical Hastening to the telegraph office in stage in their race. Both the Colorado side one of his outfit cars, he tele-& Coast and the Copper Range & Tidewater companies had reached the limits

graphed to Helen: Seagrue is using force to protest my right of way. Have attorney meet me at the depot at II o'clock. Arrange for a special to bring deputies up here.

us to the difficulties in getting through

nediately in front now of both construc-

tion gangs- was occupied by a weather

beaten pioneer who bore the name of Cas-

sidy, and his comfortable cottage ob-

neck and neck across the desert through

Rhinelander got around to see the bronzed

pioneer with a check for \$2,000-the price

session of the Cassidy demesne.

Seagrue and his followers halted them

"Do you mean to say," demanded Sea-

"Then," exclaimed Seagrue, solemnly,

"this man has fraudulently imposed on

Cassidy, bewildered, looked to his

"Do!" thundered Seagrue, seeing now

that he had his victim coming. "Tear

To so fair a proposal as this from so

no objection, and the sturdy pioneer,

worn pocketbook that gave countenance

Seagrue beckoned to his posse of men

Rhinelander and his companions to get

he did not destroy Rhinelander's.

and, headed by Cassidy, they

grue, impressively, "that you don't con-

blinking with astonishment.

the divvie 'm I to do?"

now and sign an honest one."

you."

The advent of two railroads building

A section almost im-

the town, possible rights-of-way were ex-

ceedingly scarce.

structed both surveys.

RHINELANDER." The move was not lost on Seagrue. When he saw Rhinelander board the car containing the telegraph outfit, he summoned his own operator and dispatched him to a spot between Rhinelander's car and the main line with instructions to "tap in" and take whatever messages passed. Rhinelander thus sat in his own car watching the operator tick off his message to Helen, and her reply come promptly.

Attorney will meet you on arrival. Special will be ready to leave any time after 11. HELEN. But Seagrue's operator industriously

both message and answer and turned them over to his employer. Storm, in the meantime, was making the most of his opportunity, and with The excited girl dashed at the top of Nothing of the disposition of martyrs impatiently assented to the exorbitant his men on Cassidy's place was prepar-The sheriff nodded companionably, and sum named, and going inside the cottage, ing to push possession as far as possible.

"Run the steel cables around the house, After giving this order Rhinelander had toward the station. 'Helen had returned granting to the Cooper Range and Tide hastened to the station to meet the local with Spike to the office, she had paid Water Rallway company privileges over train when it came in. So swift, however, had been Seagrue's dispositions him to the city, where, she believed, Seagrue, arriving from town, learned that his redoubtable scouts, Bill and Lug, freed from Seagrue's contaminating in- from his foreman of the status of the in- were already at the station with instrucfluence Spike would have a chance to significant plot of ground, adverse pos- tions from Seagrue to delay the special get back on his feet. And having said session of which might frustrate their until nightfall; by which time he reckgood-by to Spike on the platform and persistent plans for obstructing Rhine- oned he could make his possession as-

These worthies had already reached reached the ground just in time to en- the special and boarded it. On the platcounter Rhinelander coming out of Cas- form Rhinelander met Helen and the was looking down at the ticket in his sidy's house and the agreement duly attorney she had summoned, and with signed and delivered in his hand. And him, Rhinelander hastened uptown to got behind Rhinelander came George Storm, armed deputies-Bill and Lug now trailconsiderately she had treated him, when ready to bring the men up to take pos- ing behind to keep track of every move. At Cassidy's, Storm was urging his started forward.

men to speed on with their track-laying. and Rhinelander, feeling the victory all Seagrue's gang was almost abreast of his own, explained the situation to Sea- them and setting a pace, too, that it was times over a powder magazine of the unexpected, started a little and turned to long the peaceful abode of old man Cas-Seagrue, without saying anything to of an extraordinary disturbance. Seacontrovert what he had heard, walked grue racked his brain for an idea that straight into Cassidy's house. "I'm sorry would hamper the advance of Storm and speed with herhis energetic crew. And when the in-

reasonable price for it-not an extravagant price," declared Seagrue, impreshim. Bring up the wrecker." friendly emphasis, "just what is right

The word was passed and the ponderous wrecking car, its huge crane thrust threateningly alongside Cassidy's house and sur rounded by a swarming gang of men. Seagrue's order to throw out the whips ing to the sheriff to come over from if you will give me your signature to was instantly executed and almost this right of way contract the check, dations; hung and swung a moment doubtfully in the air, pitched headlong toward the other end of the lot and exactly in the path of Storm and his perspiring men. Rhinelander, the moment he secured

friendly adviser for a suggestion. 'Phwat the deputies, hastened back to the station and boarded the special train. A large engine coupled to one coach, stood in waiting, and as they pulled out, Helen up your fraudulent contract here and wished him good luck. Unfortunately, Seagrue's two worthies. Bill and Lug. unobserved by anybody hid on the head considerable a gentleman, there seemed end of the coach, and as soon as the town was left behind, the two climbed with a show of indignation, not only over the tender and held up the fire- faced girl brought the astonished old fore up his copy of Rhinelander's con- man and engineer. The engine crew, machine to a stop close to the coach. tract, but stamped it under foot, signed taken thus unawares, could offer no re- Rhinelander and the conductor ran to a more equitable one for the obliging sistance whatever and the two were greet her. Few words were needed Seagrue and put another and untainted forced over the tender to the head end explanation, few were lost. Coupling the check for \$15,000 into the same well- of the coach.

Cutting off the engine as soon as they hustling the deputies aboard, the conand shelter to Rhinelander's check. But had accomplished this, Seagrae's men ductor, from the rear platform, pulled away with the stolen locomotive Helen her rignal. Helen opened the throtand left the coach just where it ab- tie again and away went Soda Water told ruptly stopped when the air went on, Sal, pushing the loaded coach up the with the intention of putting as many line ahead. To Soda Water Sal a coach But | off the premises before they were put miles as possible between the coachload was a mere toy-a plaything; indeed, she of deputies and Rhinelander's chances felt as if she were only now coming into unceremoniously dropped. Seagrue saw.

Rhinelander, familiar with the bully- for defending the right of way. The conductor of the marconed coach hands to push. And without showing the the front meant. uation he faced. But he stood his ground did not lose a moment in getting into slightest apearance of strain, Soda Water

with the main line wires and the con- two stalwart tools, who were trying to ductor called up Helen in the office at run away with the engine of the special Las Vegas. In a few words he told her Indeed, the pair in the stelen cab felt what had happened, and while Rhine- quite scoure in their quick getaway until lander and the deputies listened around Bill, acting as driver, looking back saw him, he asked what she could do to a train behind and an ominous cloud of help them out of their predicament.

Helen understood the necessity for Water Sal-the conductor was firing for prompt action. But how, she asked here Helen and he understood his job. self as she looked anxiously from the ofthe little roundhouse away down at the and on the front end of the latter the lower end of the yard.

its north wall she espied the crasy old their minds as to the temper of the men yards switch engine, known irreverently among the switchmen as "Soda Water Soda Water Sal took her disreput- the whine of rifle builets about able nickname from the fact of its misfortune in being crusted white a good part of the time with alkali.

her speed down the platform and a the yard to rouse the crew and get them to carry her to Rhinelander. But though Soda Water Sal stood as peaceful as an old Dobbin munching her noonday repast. the switching crew was nowhere to be found. Beyond a doubt, Helen felt, they and to find them quickly was out of the question. She called out a few times, hardly hoping for a response, and none without loss of time Helen climbed into the cab, and, opening the throttle, gave Sal steam. A venerable mare, struck, in the midst of her lunch, with a whip, could not have been more startled than the old engine at Helen's summons. Soda Water Sal started and trembled. touched her heels again. The old ma chine let out an asthmatic wheeze, aputtered, coughed and with an uneven jerk

Certainly no such sight as she made was ever before seen on the main line of the Copper Range & Tidewater. Soda Water Sal had been dancing a twostep on the rails, she could not have sidy, now became the very storm center she did as Helen, pushing her to a pace undreamed of in her long and peaceful yard career, achieved a miracle of

spiration struck him be put it instantly the train crew and the engineer and fire-Up the line, Rhinelander, the deputies, man of the stolen engine surrounding the "They're beating us," he said to us marconed coach, searched the horizon foreman; "that's flat. But I can stop vainly for a sign of assistance. The conductor, the moment after he had raised Helen on the wire and told of their plight out between stations on the main line, forward, was pushed had not been able to get another word from the Las Vegus office. In his impatience and excitement, Rhinelander had taken over the telephone and used leis best endeavors to make himself heard within a minute, it seemed, after the by Helen. The suspicion came to him that "But-" sputtered Cassidy, with dif- play the house was enveloped in a nethuge machine had been brought into Seagrue, with some unsuspected deviltry, ficulty. 'Twe sold this place this this work of steel. There was a sharp word communication from the helpless rescue Scagrue, meantime, put his hand in his minute, Mr. Scagrue, to this man Rhine- of command; a rattle of pistons; the party. But as he dropped the receiver in old house quivered for an instant in the despair, a shout arose among the depgrip of the mysterious monster-then it uties, and looking down the far perspectrose like a mad aeroplane from its foun- ive of the long tangent that separated them from Les Vegas, Rhinelander's men saw a faint line of smoke on the horison. It grew rapidly more distinct and settled with a heavy bang down to earth spread blacker and heavier. An engine was bearing down upon them. The rallroad men were nonplused. None of them could recognize in the distance the shambling gait of the queer flyer, and Soda Water Sal was well upon them before they realized it was she. None the less hearty, however, was her welcome, and when the expectant throng made out Helen's face at the cab window a chorus of shouts went up to great her.

With her hair in the wind and her eyes burning with excitament, the whitecoach ahead of the switch engine and her own when she had something in her before Seagrue and Cassidy, listening action. An emergency telephone was Sal ate up the miles abend of her like city stood on the footboard as the sturdy patiently to what the viotimized old man snatched from its bracket, connected up blocks and got within sight of Seagrue's switch engine started. On it came, ac

smoke pouring from the stack of Soda

In spite of everything, the two outfice window up and down the yards, to laws could do, Helen closed up the gap help them quickly? Her eye lighted on that separated the coach from them, fleeing rascals could make out the armed Resting within the friendly shade of deputies. Had there been any doubt in pursuing them, little puffs of white smoke rising from the coach front, and ears would have convinced Lug and Bill of the danger threatening them. Safety first was a household word with the two. doning the engine, Lug, with a word to steps of the tender and tumbled down a to the same diminution of gravity when soft bank of the right-of-way; his com- balanced against each other.

coach was again coupled to it by the Rhine- civilized mankind get through lander party, and when the queer-looking combination reached the first passing track, the engine of the special, almost dead, was vigorously kicked by Soda Water Sal, together with the car, out sults that this remarkable "force" prowater Sal, together with the more into the clear. And Helen, with the more dupes.

The loss of weight at the equator is the equator is the loss of weight at the equator is the loss of the loss the foot board and running boards of due to two things, first directly to the Soda Water Sal and others swarming in its tender and crowding the cab, again rushed the posse on to the scene of the trouble

At the camp Rhinelander's forces were in trouble. Seagrue's strategy had 'completely blocked them-everybody stumped by Seagrue's audacity. while the leaders were trying to pull bulged around the equator by the centhemselves together. Seagrue's men were rapidly extending their possession of the disputed ground.

Storm, realizing that at any cost the situation must somehow be recouped, ran over to where Wood was watching the enemy, and whispered to him. Whatever the proposal, the old man was startled when George Storm made it.

Wood looked toward the camp dubiously. "I don't know," he said, finally. "That's pretty radical medicine. But Rhinelander isn't here and I suppose we've got to do something. It's a cinch they've got us beat out of three months' time in another hour, for if they once get hold of this section, we've got to drag them into court. If you think the old man will stand for it, George, slam away. You know as well as I do. But I can't take the responsibility."

"I will," cried Storm emphatically. He turned to the foreman of their switching crew, who stood near, and pointed to the engine puffing at some little dis-"Couple onto that outfit car, Carty, as quick as the Lord will let you, and get ready for a run."

Carty hurried down the track. Storm, giving orders right and left, asked Wood to send a crew of men to throw everything moveable in the outfit car out on the sand. Seagrue, watching from a distance the

sudden activity among Rhinelander's forces, watched the new developments with much curjosity and some little anx-He saw the switch engine speed down the line, couple to the outfit car south, while in the southern hemisphere and back away with it for a dash. In everybody would slide northward until the cab all was excitement. Under the entire population of the globe was Storm's orders preparations were being heaped in a promiscuous belt of human made for a record dash, and as the engine stopped with the outfit car in front whose cries and gesticulations would of it down below the second switch, huge columes of smoke pouring from the stack into the blazing sunshine convinced Seagrue that something was up. Rhinelander's laborers and track layers under Storm's directions parted and stood expectant at each side of the run of track on which Cassidy's house had been so coo late, what Storm's radical move to

Storm, scent of battle in his nostrila,

AUTHOR OF "WHISPERING SMITH," "THE MOUNTAIN DIVIDE," "STRATEGY OF GREAT RAILROADS," ETC.

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celebrating fast from one, two, ten, twent/ | looked to Storm as if blood might be understood it all. A mighty yell rose right-of-way the young man felt new a from the delighted gang as the engine little uncertain about. Rhinelander looked stretched his left arm far out as a semaphore-signaled the cab.

engineer checked heavily. A stream of fire ground from the driving wheels; the engine Jumped in the grip of the brakes and the outfit car, released, headed like a catapult straight at Cassidy's house. Men jumped back as it hurtled past. The next instant, crashing and smashing ahead, it tore completely through Cassidy's house. A great cloud of dust and timbers rose as from an explosion and the next moment what had been a house lay torn into a thousand pieces along the right-of-way.

Like a spent cannon ball the outfit car drove on: men, amazed, watching its wild flight. It struck the end of the rails, hung for a moment poised, trembled and toppled headlong from the embankment into a borrow pit.

Storm sprang from the foot-board of the engine, and before the dust of the crash had settled, called his men forward. Rhinelander's gang responded with fresh hope and energy. Seagrue saw with wrath how completely he had been outplayed. He called his men together to pipe and reflecting on the queer things rush the Copper Range forces for postant may happen in a real railroad war. session of the Cassidy yard. They ran forward with picks and shovels, and it

miles an hour up to thirty. With the shed in spite of everything, when the safety valve popping and smoke stream- long, shrill whistle of Soda Water Sal ing in a cloud from the stack, the en- was heard down the line, and within gine with Rhinelander's movable hotel in a few moments Helen brought the old front of it, bore down on Cassidy's engine to a stop at the end of the steel. house. Cassidy himself, sunning on a The deputies, followed by Rhinelander pile of Seagrue's ties, with his pipe in and his attorney, poured out of the ganghis mouth and his two checks in his way. Storm met his boss, Just what pocket, little suspected what was com- view Amos would take of the summary ing. But Rhinelander's men saw and measures he had adopted to clear their

and car sped on. Storm, bareheaded, ahead for the familiar landmark which his black hair streaming the sun-cling- he had just acquired at the rather ex ing with one hand for safety as he swing travagant price of ten thousand dollars, from the end of the foot-board and and asked where the Cassidy house was "Ahl gahn t' hell," interposed Cassidy (who stood listening), pathetically, Storm pointed to the wreckage littering the right-of-way and told the story

of what had been done by Seagrue and how his play had been defeated. Rhinelander's face lighted with enthusiasm and Helen's eyes danced with sheer joy. Seagrue, disgruntled and beaten, had seated himself on his own right-of-way on the pile of ties vacated in excitement by Cassidy. In another hour Rhinelander's men had made their title to the disputed property good. Cassidy, bewildered by the extraordin-

ary turn things had taken, started to walk back to where Seagrue was, but on reflection, he changed his mind, and, lighting his pipe, sat quietly down on a part of the roof that had for many years given him a peaceful shelter, to view the vengeance so swiftly taken on his former abode. He had less than Sengrue had to worry about. With both checks in his pocket, he felt sure he must realise on at least one, and he sat on the scene long after the men had quit work, thoughtfully smoking his

Centrifugal Effect of the Earth's Rotation

By GARRETT P. SERVISS.

The weight of a body at the equator being compounded of the gravitational force pulling it toward the earth, minus the centrifugal force of rotation of the earth tending to throw it into space, why does not said body weigh more at or near the poles, where the centrifugal force is nonexistent?

J. C. A., Colton, Cal.

It does! A body was carried from the north or south pole to the equator would lese about one-twelfth of an ounce, avoirdupois, in every pound. A man whose weight was 194 pounds as he stood on one of the poles would weigh only 193 pounds if he went to the equator.

In both cases he would have to weight ordinary scales would fall to reveal the loss, since both the body weighed and Bill to ease the pace, descended the the weights in the pan would be subject

hind, shot past them with her reeling shape of the earth, and of the existence and a comfortable abode for us, aithough s grade, a few miles ahead, the coach I suspect that the great majority of school and college days without ever dreaming of what they owe to the centrifugal effects of the earth's rotation Let us see some of the surprising re-

centrifugal force, and second to the deformation of the earth which that force has produced. The direct loss by centrifugal force is 1-259th of the force of the gravity at the equator.

The indirect loss comes about through the fact that the globe of the earth it-And self has been flattened at the poles and trifugal force, so that the surface at either pole is about thirteen miles neares the center of gravity of the earth than is the surface at the equator. But the force of gravitation decreases with in crease of distance from the center. It results that the attraction of the earth upon a body on its surface is 1-590th part less at the equator than at the poles. Adding the two fractions, 1-239 and 1-500 we get 1-194, which, as already said, is the actual amount of the loss of weight experienced at the equator as compared with the weight at the poles But the loss of weight does not occur suddenly at the equator; there is more or less loss at every point on the earth, increasing as you go from the poles to the equator. Between those two final points, however, there is another and a very remarkable, effect of the centrifugal force.

That force is not directed away from the center of the globe, but perpendicularly away from its axis of rotation On the equator this is equivalent to direction away from the center, but in the latitude of New York, for instance, the centrifugal force causes the plumbline to incline nearly one-tenth of a de gree from the direction of the earth's center and toward the equator, the result being that here there is a tendency for everything to slide equatorwards. If some magician could suddenly turn the earth into a perfect sphere, with a surface as smooth as glass, we would find curselves (unless we could get a

solid anchorage) slipping off toward the beings, of all colors, habits and beliefs, probably be as confusing as those of a cageful of frightened monkeys. And then think of the animais that would go skating with us!

But centrifugal force itself has saved us from the possibility of such a disconcerting experience by causing the earth in the formative stages of its existence to assume a shape correspondng to the resultant of the forces acting pon it. Instead of being a sphere it is an oblate spheriod, i. e., a body which s nearly spherical, but a little flattened

equator, and this deformation. caused by the centrifugal force, is naturally just enough to balance its effect. It follows, of course, that the surface of the oceans has assumed a curvative corresponding to the spheroidal form denanded by the centrifugal force. If the earth's rotation stopped the oceans would flow back in tremendous waves upor the polar regions and collect around in two enormously deep seas, while the equatorial and tropical zones would beome a broad belt of high mountainous and plateau land, interspersed with stu pendous hollows where oceans had once

One of the minor consequences of a stoppage of the earth's rotation which has often been pointed out, but which which now flows thousands of miles directly toward the equator, would turn upon its course and flow northward, bepanion followed; a few minutes later
This is a very curious subject, and one
the earth by several thousand feet than
which involves the whole problem of the
is its mouth.



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