Explorations in Patagonia. By Prof. J. B. Hatcher, Princeton University.

HYSIOGRAPHICALLY, Patagonia is divided into two sharply defined regions—are eastern level and comparative ly barren plain and a western exceed-ingly broken and mountainous region. former extends eastward from the base of the Andes, where it has an altitude of 3000 feet to the Atlantic Coast, where it terminates in a con tinuous line of precipitous cliffs 300 to 400 feet high. Three distinct features characterize

the topography and tend to relieve the monotony of the broad Patagonian plains. The first of these is the series of escarpments, from a few feet to several hundred in height, encount-ered at successive altitudes as one proceeds from the coast inland toward the 'Andes. These escarpments have a general trend parallel with the present coast line, and they doubtless mark successive stages in the final elevation of the land above the sea.



TEHNELCHE MAN, SQUAW AND CHILD.

of deep transverse valleys crossing the territory from east to west and stituting the present drainage system. In so far as my observations have gone, these are all true valleys of erosion. The third and perhaps most striking feature in the topography of eastern Patagonia are the volcanic cones and dikes, and the resulting lava sheets, which covering extensive areas throughout the central plains, are seen capping most of the higher table lands and frequently descending well down the slopes into the present valleys, while the extinct volcanoes often rise majestically hundreds of feet above the surrounding plain.
In a line approximating the seventy

second meridian of west longitude, the Andes rise abruptly from the plains and form one of the most rugged and in many respects most pic-turesque mountain chains in the world. Many of the peaks attain an altitude of over 10,000 feet, quite sufficient at this latitude to precipitate most of the moisture in the atmosphere as it is forced over from the Pacific. Owing the southwesterly winds which pre vail here throughout the year, the at-mosphere during its long journey across the Pacific becomes saturated with moisture, which, together with completeness of the precipitation brought about by the advantageous topography of the western coast, renders this region one with an exceedingly



BALANCING ROCK DUE TO EROSION.

high annual rainfall and consequently luxuriant vegetable growth in strik-ing contrast to the dry and comparatively barren eastern region, where the winds, already deprived of most of their moisture during their passage over the Andes, are usually dry and on the plains, and the condor, com-low. The prevailing winds in eastern mon in the Andes, along the high Patagonia, as in western, are southwesterly, and an easterly wind of twenty-four hours' duration on the gion. eastern coast is sure to terminate in

tainous region is precipitated as rain.

Formerly these glaciers were much more extensive than at present, and they doubtless contributed to the ero-sion of the exceedingly intricate syssion of the exceedingly intricate system of mountain gorges and flord now forming so conspicuous a feature

other game animals and birds they are exceedingly proficient and show much ingenuity. The Channel Indians of the western

region are physically much inferior to the Tehnelches. They are essentially a maritime people with all their acnow forming so conspicuous a feature of the region.

The slopes of the Andes below an altitude of 3000 feet are covered with dense forests, especially on the west-ten side. The variety of trees in the southern regions is very limited, and the quality of the wood for lumber or timber for building is poor. Two specially a maritim, people with all their activities clustering about the shore, from which they never proceed more than a few miles inland. They subsist chiefly upon shell fish, the fiesh of seals, fish, and the sea otter and a few edible fungi indigenous to the region they inhabit. From the skins of the seal

and sea otter they construct their

clothing, usually exceedingly scanty, notwithstanding the inhospitable cli-

mate. Rude huts are sometimes built from the branches of trees, but they

spend much of their time in small

open boats made of beech bark sewed together with whale bone. It is in the construction of their boats and

the implements used by them in the capture of seals that they show the

Although the plains of eastern Pat-

agonia are exceedingly monotonous and uninteresting to the casual observ-er, yet they are of the greatest inter-

est to the geologist and palentologist, for it is the rocks composing them that contain the remains of the extinct ani-

mals that in former times inhabited this region. In many places along the

river valleys there are extensive exposures of the sedimentary rocks rich in fossil remains, and the high bluffs

of the sea coast have proved among the most promising localities for the col-lector.—Scientific American.

Locomobile Safety.

Apropos of the danger to horse-drawn vehicles and their drivers from

automobiles, the case of the recent 1000 motor tour of the English Auto-

mobile Club should be considered.

The route was over a purposely so-lected hilly country, the object being

to test the staying ability of the va-

rious machines, some of the machines negotiating excessively steep gradients

at a much faster pace than a horse-drawn vehicle could possibly main-tain. Notwithstanding this and that

the several vehicles entered in the race covered in the aggregate 60,000

miles, not a single accident of any

The Girl in the Sombrero.

greatest skill and resource.



TEHNELCHES TAKING YERBA.

eies of beech, Fagus antarctica and F. betutoides, the latter an evergreen, are much the commoner of the trees. The deciduous beech is especially abundant, and is the only tree found throughout extensive areas on the

eastern slopes of the Andes.
Within the dense forests, lichens, ferns, mosses, and other cryptogams grow in great profusion, entirely cov-ering the ground and trunks and lower branches of the trees. The delicate foliage and variety and harmony of colors of these plants, always fresh-



AN OLD TEHNELCHE.

ened by frequent showers, enhance the other natural beautles of this region, and give to the quiet depths of the forests a peculiar attractiveness, contrasting strongly with the rugged road through any of the motor cars. canons and serrated crests of the high The most conspicuous animals of

the forest region are a small deer, not quite so large as our Virginia deer. the male with usually only two points on either horn. The puma, or moun-tain lion, is abundant both on the plains and in the mountains. There are two species of dogs. The larger, Canis magellanicus, is about the size can small colle, of a reddish brown color, and frequents the wooded regions. It is rather shy, in striking contrast with the smaller C. azare, abundant in the plains, of a light gray abundant in the plains, of a light gray color, and about the size of a small red fox. The guanace or South Amer-ican camel is very abundant over the plains, and occasionally enters the wooded mountainous districts. Among the birds, two, from their size, are especially noteworthy, the rhea, or so called ostrich, found in great numbers on the plains, and the condor, com-mon in the Andes, along the high

The natives of the eastern and west ern region belong to two entirely dis-tinct races, differing from each other in their customs, language, and mode of life. To the eastern region belong

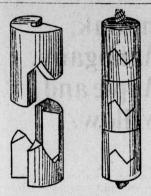


Woven wire mats are shown and one maker has a novelty in their treatment. He embodies in the mats pieces of rope, and these, protruding between he interstices of the wire in which they are embedded, produce a soft rend that is very agreeable, yet at he same time they are so fully pro-ceted by wire that the durability of he mat is not lessened.

er cent, more to make bread by hand han by machinery.

ADJUSTABLE SASH WEIGHT. Made in Interlocking Sections in Order to Secure Any Weight.

A new sash weight has been in-cented by Eugene S. Crull. It is made in sections so as to facilitate the adjustment of the weight to meet any



SASHWEIGHT IN SECTIONS.

emergency. The two parts of which the weight is formed each consist of the weight is formed each consist of a body section with an open portion and a branch, the branches fitting in the open portions of the bod'es. Each part has also beveled flanking branches which interlock to sustain one part on the other. The parts have grooves which match to form a pass-

age for the reception of the sash-cord.

It is evident that the number of weights can be increased or decreased at will to regulate the stress on the cord. When the proper number have been applied the weights are held securely by a pin driven through the cord or a split washer clamping the cord and engaging the uppermost weight.

The Fruit Care.

Twice it has been my privilege to take "the grape cure" in Switzerland. For ten days the schools are discontinued that teachers and scholars with fathers and mothers, may repair to the vineyards and eat grapes all day long. For ten days the druggists mourn because customers are not, and for as many months nature's patients feel the good effects of the cure wrought in a pharmacy which is not

wrought in a pharmacy which is not of man's furnishing.

For forty years I have taken the "fruit cure" all the year round, and have to offer in advertisement thereof a perfect digestion, steady nerves and such general vigor as is vouch-safed to few women of my age.—Marlon Harland, in Philadelphia North American. North American.

A Taciture Ceneral. Moltke's reticence was so proverbial, says the Argonaut, that, as the King's birthdays approached, there used to be bets among the officers as to how many words Moltke would use in pro-posing the toast of the day. Some backed a nine-word speech, others put their money on eight words. Molike's habit was to say: "To the health of His Majesty, Emperor and King," or "To His Imperial Majesty's health." In 1884 an oyster breakfast was staked on the Marshal's not using more than nine words. But, because he began with the word "gentlemen." the bet was lost. The loser comforted himself by saying: "He's aging, is Moltke; he's getting loquacions."

Often the wage worker has an in come far exceeding that of the professional man. Smiles says that in his day rail rollers had pay equal to lieutenant-colonels in the foot guards; plate rollers equal to majors; roughers equal to those of lieutenants and adjutants. In our own country the wage worker's income often averages more than that of the clergyman.

Over the kitchen fireplace at Ab-botsford, Sir Walter Scott's lovely home, are carved in stone "Waste not, want not." There is nothing nobler in the life story of Scott than his struggle to pay his creditors' debts incurred through the misfortune and mismanagement of his publishers.

Heat Harms Honey.
Great losses have been sustained by Kentist beekeepers owing to the in-tense heat having run the honey from the comb, making it useless and smothering many swarms of bees,-London Express.

A Curious Temple.

The pagoda at Pao-tah is the most curious in China, and is regarded with

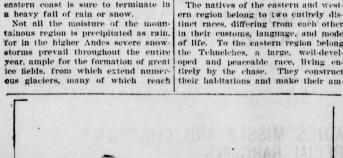


THE PAGODA AT PAO-TAH.

great veneration and respect by the Chinese, for it is the only pagoda on which trees may be seen growing.

DR. TALMAGES SERMON.

SUMMANY DISCOURSE AFTICE ACTUAL CONTROL OF THE CONTROL OF T



CURIOUS WIND AND BAIN EROSION IN ANDES OF PATAGONIA.

from the mountain summits far down ple clothing with considerable skill timber line, and some on the from the skins of the guanaco. western slope quite into the sea, the capture of the guanaco, rhea and