The Science Meeting in August.

[Montreal Witness. 1

The American Association for the Advancement of Science will meet in Montreal during the last week of next month. This Association since its formation, thirty-one years ago, has attained a growth and done a work which fair ly entitles it to comparison with its famous prototype, the British Association, founded twenty years previously. The eminent na turalists, chemists, botanists, astronomers best original work to the public for the first time at these meetings, so that the papers read, the experiments conducted, and the specimens and models shown at these gatherings simu late interest and enquiry not only among the membership of the Association but also among the thoughtful and studious in the cities honored oy the assembly. In migrating, too, annually from place to place, the Association good must accrue from the trained observation a serpent generally have something more to do. August s the month when our hotels are usually over flowing with the tide of summer travel, and the two principal ones finding their accommoda-tion insufficient are extending their premises, so that our visitors, who are expected to number twelve hundred probably, must be provided for in the main by hospitality. The special committee formed for the purpose of obtaining this hospitality have during the past month sent several hundred circulars to the principal householders of the city soliciting it, and the comparatively few responses received so far make the committee fear that when our scientific friends arrive many of them will be un provided with shelter. Should this fear be realized the effect would be greatly to mar the pleasure and interest of the most distinguished meeting ever held in Canada. We trust that our readers, as far as their or portu nities may permit, will do what they can toward the reception of the Association. In many cases where a large house is deserted for the summer by all its inmates except one or two, summer by all its inmates except one or two, it may be impossible to offer our guests more than lodging, still such an offer will relieve the main necessity, as the hotels, restaurants and boarding houses can provide meals for hun dreds whom they cannot lodge. Mr J. Bem ros., Secretary of the Special Committee, may be addressed at the Natural History Museum by any householder having accommodation to

There are three wick's to the lamp of wo man's brain-brain, blood and breath. Press the brain a little, its light goes out, followed by both the others. Stop the heart a moment, and out go all three of the wicks. Choke the air out of the lungs, and presently the fluid ceases to supply the other centers of dame, and all is soon stagnation, cold and darkness. -Oliver Wendell Holmes.

Weather Factories.

International Review .- It is our jour how many myths of ancient times have been surpassed by the realities of the present age. Prome-theus pilfered the fire of Jove. We have got hold of his thunder, too. Our Hesperian gardens produce freedom and diamonds, as well as gold. Our traveling Arions need not bestride a dolphin to defy the winds and the tides The good steed Bayard would be eclipsed! by the iron horse as the darts of Usiris by a minnie ball, the ultime thule has become a halfelectricians and others who belong to these way station of our whaling fleet. Tethys and Associations usually give the results of their the Oceanides could foretell a sea-storm: we predict all sorts of weather, and begin to manufacture them.

The Ashantees are not the only people who have attempted the problem of weather generation. Conturies before the foundation of Rome the Etruscans had a temple of the Apollo Hiemalis, with a grove, where the inclemency of a backward spring was propitiated by pe-culiar mysteries, and Columella, the Roman becomes acquainted with the scenery, the Huxley, ridicules the inhabitants of a little geological features and the special industrial casis in the Province of Numridia, who tried to wealth of all parts of the continent, and great break the spell of a summer drouth by flogging good must accrue from the trained observation a serpent. What would Columella have said of specialists in mining, pisciculture forestry about a systematic attempt to improve the a "region of perpetual spring," as Xenophon has been noticed in the United States that ago (September, 1881), the St. Petersburg Sselencus Nicator had their favorite country ceives marked impulse in the city selected as legislative amendments for the value of Daphue, where even a ceive a marked impulse in the city selected as legislative amendments for the promotion of a place of meeting by the Association. With forest culture in the provinces of Kasan and these benefits before us, we should not, as Astrakan, "with a view of improving the citizens of Montreal, be wanting in performing climatic condition of Southern Russia." The our part toward making the August meeting a Imperial Council has since sanctioned these success. Our City Council have made a liberal smendments, thus following the piecedence of grant to aid in the necessary expenses of recep. Prussis, France and Egypt in recognizing the tion, and our steamship, railway and steambar importance of the strangest discovery since I'ves have made liberat concessions, and in the reappearance of the lost Atlantic of the some cases agreed to give free excursions to fact, namely, that Nations are the arbiters of our distinguished visitors, but our citizens their climate vicissitudes; that the tree-des generally have something more to do. August troying axe has turned thousands of garden lands into deserts, and that the greatest of all earthly evils has been caused, and may be

cured, by the agency of man. Just about three hundred years ago Bernard Galissy, the Nestor of the Huguenots, called attention to the meteorological changes in Southern France, where the denudation of the mountain ranges had made the summers dryer and the winter storms more destructive by removing the natural barriers to the force of the wind and turning mountain brooks into tor-rents. But the full significance of these phenomena was only realized when Humboldt published his work on the climatic influence of vegetation. The culture of forest trees then became a special science; the writings of Amersford showed that their destruction had caused the irruption of the Zuyder Sea and blighted the fertility of the Azores, and, by comparing the ancient historical with the present condition of Southern Europe, it was found that the same cause had produced a change which more than verified the omen of the Paradise legends. In a recent number of the Paradise legends. In a least, admission of Popular Science Monthly (January, 1882). Mr. Frederick James describes the climatic ameni ties of Western Arizons, where the sirocco of the Colorado Desert is often accompanied by violent sand showers, which once in a few hours almost obliterated the track of the Los Angelos Railroad. If a shower of that sort were to de scend on the garden regions of Southern Massachasets, and continue for twelve days and twelve nights, the result would give us an idea of the contrast between the present and the former appearance of Asia Minor. The barren mountain ridges that characterize the land scapes of our Bible illustrators are as anachron istic as the siege guns in Giorgio Vasari's "Destruction of Jerusalem." Even during Even during the last centuries of the West-Roman Empire the luxuriant fertility of Western Asia must

bination of natural advantages with assiduous horticulture or landscape gardening in the happiest valleys of our Atlantic sea board; gardens and forests of fruit trees must have clothed the hills to their very summits to sup port the teeming population of the ten Roman provinces between the Caucasus and the Archi pelago. On an area of thirty thousand square miles—about the size of the State of South Carolina-Mithridates raised armies which re sisted the power of Rome for twenty-two years. the six west provinces were studded with towns that could emulate the luxury of Alexandria. While there own country was yet in the prime, Syria was to the citizens of Rome what modern Italy is to the rest of Europe, the Elysium of poets and pleasure seekers. About a century after the death of Alexander the Great some mercenaries of Gaul found their way to Asia-Minor, and their return to their native country created a bonanza sensation which induced sixty thousand of their countrymen to abandon their homes and fight their way across South ern Europe, in order to reach that lubberland of the East, where the survivors actually gained a foothold and founded the Province of Gala tia, Cyrus the Great used to pass seven months cats in the Valley of Daphne, where even a Greek could forget his native land.

And the axe alone has blighted all but a few mountain nooks of the seagirt Eden: the coast regions from usza to Trebizond resemble the shores of the Dead Sea. Northing short of a miracle would induce the Jews to recolonize the promised land of their fathers. In Svris. in the land of Fontes umbrosas and meandering meadow brooks, water is now as scarce as in the Llanos Estacados. Asia Minor has become the epitome of a dying continent; her poverty and the hellish harmattan, the firewind of the Arabian Desert, are now her only protection against a western invasion.

Judging from the description of ancient geographers, the climate of the North African provinces must have resembed that of our Gulf States—Florida and Southern Texas—for even in the third century the Cyrenaica (the modern Tripolis) had eighty Christian Bishops and a population of ten or twelve millions; two hundred years later famine and droughts had reduced that number to six millions; but the reckless destruction of forests continued from century to century, though Terentius Varro had already warned his countrymen that in the deserts (a word which had not yet acquired its horrid literal meaning) posterity would hold a destroyer of a tree nymph as guilty as a murderer. In Africa, Syria, Asia Minor, Armenia, Persia, Greece and Spain, the agricultural value of the low lands has been reduced by more than 80 per cent.; in Italy and southern France at least one half; on the Eastern continent, a once lavishly-fertile territory of seven million square miles has been withdrawn from human uso. Americas contain about fifteen million square miles but, if we deduct the snow wastes of the Hudson Bay territory, Labrador, the deserts of our own Great West, and the South American paramos and fever swamps, we must agree with Charles Laurent that the gain by the discovery of Columbus has hardly balanced the loss through the neglect of Varro's warning.

When the population of Italy had reached its maximum, the highlands of the peninsula were still clothed with splendid forests, abounding with game, honey and wild-growing barries, and the agricultural regions were blessed by a combination of the happiest climate and the richest soil, with other advanhave surpassed anything produced by a come tages, which make one suspect in spite of