for a hot day may be evolved from a describes experiments tending to show that the seeds lead a retarded life for a twenty pounds, as centre-piece. Have a tin pan, and place the ice in it. pan will catch the drippings, while it may be entirely concealed by a judicious arrangement of terns and smilax. centre of the block may be hollowed out to contain a candle, fruits or flowers. At large catering establishments they have moulds to make ice in any desired shape. Little saucers of ice are made for oysters. These saucers may be made at home by putting water in a dish, setting a dish over it, filled with ice and salt, add packing sa t and ice under it. Another way is to fill a dish with water, freeze it, and taking a hot iron or cup, melt the centre into a di-h for the oysters.

Ivory-handled knives require special care in washing. The handles should never be allowed to go into the dishpan. Hold the handles in clean, dry left hand, while the right hand washes the blades. Spots can be removed and polished surfaces restored to ivory handles by pow-dered pumiee stone and water.

EMMA PADDOCK TELFORD.

SCIENTIFIC MISCELLANY.

Carbon monoxide, or carbonic oxide, is the most dangerous of all the gases given off from coal fires, as it is a true posion, and, instead of destroying life by suffocation or exclusion of oxygen, it has a direct action on the blood, apparently aftering the character of the red corpuscles. It—and not carbon dioxide corpuscles. It—and not carbon dioxide or carbonic acid—causes the headaches and sense of oppression some imes experienced in coal-heated rooms, so small a proportion as 0, 5 per cent in the air occasionally giving rise to alarming symptoms. But a late paper to the Paris Academy of Sciences suggests that there may be risks from furnace heating yet unknown, as in only one case out of ten of mysterious accident attributable to emanations from heated iron pipes was carbonic oxide found to the extent of 0.04 per cent. The delicacy of the means of testing was shown by experiments with an iron stove kept at a dull red heat, the presence of 0.015 per cent of carbonic oxide in the air being demonstrated.

The increased cost of deep mining, according to Mr. B. N. Brough, is not serious where the output is considerable. Only two mines-shafts in the Lake Superior districts reaching 4900 and 4450 feet respectively—have yet been sunk below, 4000 feet; but four mines in Germany, two in Belgium and one in Austria Hungary range hetween 3500 and 4000 feet in depth. The deepest British mine—the Pendleton, near Manchester—is 3474 feet deep; the deepest in Scotland—the Niddrie, at Porto Bello—is 2110. Steel cables hoist loads of six tons at the rate of a mile in a minute and a half at the deep mines of Calumet, and in England the speed has reached 57 miles an nour.

A late mysterious explosion in a co!liery in South Wales appears quite certainly to have resulted from a spark caused by a heavy fall of the gritty sandstone roof.

Alumiaum, in plates a quarter of an inch thick, has proven a very durable

becomes wholly inert, though unchanged in composition and internal chemical structure, and thus remains for yearspossibly for centuries—ready to spring into activity under suitable moisture, temperature and aeration. The germit ating power of peas and beans tained even after exposure for four days to a cold of 328° below zero Fahrenheit a temperature at which ordinary chemical reactions no longer take place. power is destroyed by carbonic acid, al though it is not lost in a vacuum, protcplasm in latent life seeming to resemble certain mixtures—such as explosive mixtures-in which certain substances, it unchanged by surrounding substances, may rest in contact until the conditions favor their combination. This state of chemical and vital inertia may continue for a very long time, as, while the growth of mummy wheat is undoubtedly a deception, seeds known to bave been 150 years old have germinated. Various observations seem to prove that seeds may lie dormant in the ground for great periods, one notable instance being that of an unknown plant, discovered at Laurium in 1875 in a position indicating that its seed was buried under scoria by ancient miners at least 1500 years ago, while Professor Peters of Gottingen has recently produced numerous plants from earth removed at different depths in plantless fore-t soil Such facts caused Alphonse de Candolle to suggest soundings beneath the snows of the Alps, his idea being that we might recover from the buried soil surviving germs of the vegeta ion that existed before the glacial period.

The geological fault of the Jordan-Arabah Valley has a length of 270 miles or more from the Gulf of Akaban to the base of Hermon, and is undoubtedly much longer. Another great line of fracture is now reported from southern Afghanistan, where Captain A. H. McMahon has traced a remarkable trench for 120 miles in a north-north east and south-south west direction, finding it to be clearly a tault line,

A case of periodical hiccough lasting several months in a man of 42 has been traced by a Norwegian physician to a tumor at the base of the tongue.

The oft-repeated suggestion that music be employed as a curative agent in hospitals gives interest to a recent investigation by A Binet and I Courtier, who have studied the effects of musical sounds upon the respira ion, heart and capillary circulation of a well known composer. Major chords and especially discords quickened inspiratiod, while minor chords tended to retard it. All melodies-grave or gay-quickened the respiration and increased the action of the heart, lively tunes having most ef-fect. Single notes or chords, entirely unassociated with emotional ideas, quickened the hearts' action in a less degree than melodies, the greatest acceleration being produced by operatic or tamiliar pieces. The capillary circulation was usually slightly diminished by musical sounds, lively airs having greater influence than sad melodies.

The common belief that high barometer or anticyclonic conditions in winter are likely to be accompanied by unusual roofing material in Berlin.

As mystilying as life itself is the latent vitality of seeds. M. C. de Candolle break up when the barometer gets

much above 30.co inches. He has tested this theory by tabulating the height of the barometer for the cold periods of 184x to 1890. Out of 74 frosts in these 50 years, he found that 15 only had a pressure exceeding 30 20 inches, and hese were cold waves of short duration. In 33, or less than half, the pressure exceeded 30 00 inches. In 21 the pressure was below 29 80 inches and these included nearly every cold period remarkable for its length or severity.

A remarkable adulteration of saffron has been discovered by a German microscopist, who has found barium sulphate within the cells, and concludes that the drug was first soaked in a solution of a barium salt and then in a sulfact solution. Rarium sulphate was phate solution. Barium sulphate was thus precipitated within the substance of the drug as well as on the surface, ren-

dering detection difficult. Of 107 meteors observed in England during the last ten years, Mr. W. F. Denning finds the greatest height to have been 126 miles average height at first appearance, 73,6 miles, and at disappearance, 45, 3; average length of path, 62.1 miles; and veloc ty per second, 26, 9 miles. Of 100 Meteors whose paths are given by Professor G. von Neissl, the average height when first seen was 91 Miles; while one, which was observed from Servia to France over a paich of 1770 miles, was seen from the extraordinary height of 483 miles to that

THE EUROPEAN MISSION.

of 115 miles.

(Millennial Star, May 13.)

Arrival - lue tohowing named Engers from Zion arrived in Liverpool May 10, 1897, per American line steamer Pessian : For the Swiss and German musion—Wallace B. Mathis, derman mission of the Scandinavian St. George. For the Scandinavian missio — James N. Borenson, Autrewall Learning Washington; Fred J. H. Lireon, Washington; Fred J. Fleusted, N. F. Swaibers, Guonison. For the Britise Missict-Aims W. Williams, Charles S. Green, Hyrum; Watter J. Khell, Pluta, Hector A. M. Quarrie, St. George. For the Netherlands mission—Gerard J. S. A vets, Oguell.

The lollowing named Elders from Zion arrived to Liverport, per Ameri. can time aleamably Belgoniano, May 12, 1897: F. r the British mission— Anrea L. Cole, C. W. Nibley Jr., Logar; George J. Harbour, Heber Uny; George W. Paimer, Farmington; Augusta Z. Marsunti, George Paice, Willord Robin s. B. Charace i. Broney, Beaver; Jab. z. W., West, Thomas C. White, David Everett, Balt Lane City; Brepuen Parain, Bounting; John Houston, Pangunch; George W. Ramaning, W. R W. Bather, Kaysvitte; Wil-For the Scantinovian mission Americ Peterson, Carl O. Johnson, Murray; Peter S. O. 800, Mink Creek. Joneson, Brigham City; John W. Lawson, Baudy, Neis Joneson, Brigham City; John W. Lawson, Bauth Cultonwoo; Oarl A. Au, usison, Murray. F.r. the Liwson, South Collo. w. ov; Carl A.
A. Auguston, Murray. F.r. the
Swies and Goman Mission—denry
E. Bowman, Kanai; Contact Millen,
Soft Lime City; Joseph W. Contrell,
Farmington. For the N. Incriange
-Mission—Joseph H gan Jr., Bountiu. With the company were Elder
C. W. Nibley and wife, whilste ou a
visit. Their one, C. W. Nibley Jr. nas
just filled a mission of over two years