Scientific.

SCIENCE AND HEALTH.

The American Public Health Association, a body, the objects of which are sufficiently indicated by its name, recently held its second annual meeting in New York. A number of interesting and valuable papers by eminent physicians and others were read.

Dr. Nathan Allen, speaking upon the laws of longevity, pointed out that a mind well cultivated and balanced, cheerful disposition, temperate and regular habits, are great promoters of long life. Physiology in its practical application is yet in its infancy; and when it is thoroughly understood in the family and the schoolhouse, the duration of life will be greatly increased.

Dr. Hamlyn, of Bangor, referring to diet, considered that, in the selection of meat for food, there is too little care. THE SANITARY BELATION OF HEALTH

AND ARCHITECTURE was considered by Mr. Carl Pfeiffer as of great importance, inasmuch as the architect furnishes the human body by means of its dwelling place, its house, with the propor medicine wherewith to regulate its intercoure with what is its chief food and necessityair. As this coief food exceeds in amount three times that of all other kinds, so in proportion is the science of building a proper house of preeminent importance to the science of hygiene. One of the first principles of architecture is that the material of buildings should be dry and porous. The furniture can chill and produce rheumatic affections if it is damp or has been long in an unheated room. Cold bedrooms are breeders of disease unless they have ventilation besides their cold. People sleep in airtight cold rooms and believe they are doing a wondrous thing for their health, particularly if they have the bedroom aired in the morning. All night long the air stays unmoved and becomes slowly poisoned, while the evaporation of the body settles upon the walls and makes the rooms more and more airtight.

General Francis A. Walker, superintendent of the United States census, followed in an interesting paper on

THE STATISTICS OF MORTALITY, in which the proportion of deaths among all classes was shown, as fol-

| Shar | e of population. | Share of death. |
|--------------|-------------------|-----------------|
| Colored | 126 in 1,000 | 137 in 1,000 |
| Irish | 48 in 1,000 | 66 in 1 000 |
| German | 44 in 1 000 | 35 in 1,000 |
| English & W. | elsh. 16 in 1,000 | 15 in 1,000 |
| | | |

Dr. Lewis W. Leeds then read a paper on

THE SANITARY ELEMENTS IN DWEL LINGS.

He thought it was a mistake to overheat all the fresh air as fast as it was admitted to our hospitals and public and private buildings. Nature's method of warming was a warm floor heated by the obstruction of the sun's rays, while the air above is cold.

ATMOSPHERE ELECTRICITY AND OZONE

was the title of a paper read by Dr. George M. Beard. It has been stated that there is a relation between ozone and intermittent and remittent fevers; that rheumatism is prevalent when ozone is deficient; and that when ozone is in excess, diphtheria, scarlet fever, small pox, measles, scarlatina, and other cutaneous affections become prevalent.

Professor Chandler, in the course of remarks on

THE SANITARY CHEMISTRY OF WATER, observed that the organic matter which is dangerous in water is sewage, and that many diseases, especially cases of typhoid fever, have been developed by the presence of these impurities in water.

President White of Cornell Univerity, delivered an interesting address on GENERAL BANITARY TOPICS

and proper education in hygiene. Physiology should be taught throughout a college course. The science of sanitary engineering is not so large that the main elements could not be given.

THE GERM THEORY OF DISEASE IN ITS RELATION TO HYGIENE

was the subject of an able discourse by President Barnard, in which the view was taken that the laws of health and disease were as well defined as mose of the mathematics and the only obstacle was the difficulty attending heir discovery.

Agriculture.

WASHING BUTTER .- A very large majority of butter makers wash their butter; a minority do not and claim washing as not only unnecessary but injurious. Good butter is made by some of each way of thinking-and poor also when washed and unwashed. At a recent meeting of Chatauqua Co., N. Y., butter makers, the President decided the sentiment of the meeting to be in favor of careful washing with the best water to be had. Several speakers thought but little water should be used. One man is reported to have made the extraordinary statement that applying salt freely would answer the purpose of washing and that butter would dissolve no more salt than it needs .-Western Farmer.

A THING OF BEAUTY. - A most beautiful and easily attained show of evergreens may be had by a simple plan, which has been found to answer remarkably well on asmall scale. If geranium branches, taken from luxuriant and healthy trees just before winter set in, be cut as for slips and immersed in soap water, they will, after drooping for a few days, shed their leaves, put forth fresh ones, and continue in the finest vigor all winter. By placing a number of bottles thus filled in a flower basket, with moss to conceal the bottles, a show of everlasting green is easily insured for the whole season. They require no freah water.

SNAILS, FOR MARKET .- In the distriets of Champagne, in France, the cultivation of snails for the Paris market has latterly become a profitable product, they bring about 50 cents per hundred, and are in great demand as a delicacy. During the summer, after a heavy dew or rain, the peasants catch the snails as they crawl out, with house on back, for a promenade; contractors buy up the molluses, inclose them in a kind of park, fatten them on salads, thyme, mint, parsley, &c. When large enough to pass through a ring of a certain size they are fit for the table—or are supposed to be.

Poisoning by Plants and Insects. A standing antidote for poison by oak, ivy, etc., is to take a handful of quick-lime, dissolve it in water, let it stand half an hour, then paint the poisoned parts with it. Three or four applications will never fail to cure the most aggravated cases. Poison from bees, hornets, spider bites, etc., is instantly arrested by the application of equal parts of common salt and bicarbonate of soda, well rubbed in on the place bitten or stung .- Boston Journal of Chemistry.

FABULOUS PRICES PAID FOR SHEEP. -The high prices paid for certain breeds of sheep, a few years ago, when Atwood merinos brought anywhere from \$100 to \$20,000, are recalled by some great sales of breeding sheep that recently took place in Edinburgh and Kelso, Scotland. Black-faced and Cheviot sheep sold for about \$250 each, and Lord Polwarth disposed of some fancy Leicesters at prices ranging from \$200 to \$500. His best ram brought \$1000.

A CHEAP CUSHION .- " One who has 190 St. John by Steamer ... 8.00 tried it," writes as follows to the American Farm Journal :- " If any farmer wants a convenient and cheap cushion to ride on, let him take a sheep skin as soon as it is taken from the sheep, and scrape the flesh off, then lay in a smooth place. Pulverize one pound of alum and the same of salt, and cover the flesh side of the skin and let it lie for a week or two, and it will be well tanned. They make the best seat for the reaper, raker, corn planter, or to throw on the horse to ride from the field to the barn, and if we should b. eaught in a sudden shower, they will answer for a protection."

AN INCH A YEAR, -A Minnesota farmer gives in the St Paul Pioneer, his experience with ploughing a field for wheat one inch deeper every year. The first year he ploughed the land four inches deep, and har rested seven bushels of wheat to the acre. The next season he ploughed one inch deeper and took off twenty bushels per acre. Continuing to plow one inch deeper the next year, he harvested deeper the next year, he harvested thirty-one and a half bushels. He says in conclusion : "Last Fall I did not go down for the extra inch. I feared if I kept on until I got down 15 or 20 inches, the straw would grow

stand the storms of Minnesota but if we want long straw and heavy wheat we must plough deep. One inch deeper each year is plenty and if this rule is followed strictly, our farms will be in a good condition 100 years to come."

A CHILDREN'S FLOWER SHOW .- In November last, several gentlemen in Manchester and Salford, England, formed themselves into a society with a view to encourage a taste among children for the cultivation of pot flowers. They accordingly purchased a number of plants in pots, and gave them to boys and girls who were likely to be assiduous in cultivating them. The first show of the flowers thus given was recently held, and about 250 children brought their plants for exhibition. The collection embraced tulips, hyacinths, etc., some of which were very beautiful. Prizes of flower seeds were given to the boys and girls whose plants were in the best condition. The idea is certainly a good one .-Horticulturist.

CEMENT FOR PIPES, STILLS, RE-TORTS, ETC .- J. Spiller recommends a mixture of pulverized iron borings, kaolin, and sirupy silicate of soda as a lute for fixing on the heads of stills which are required to stand a high temperature. We should judge the same might be found useful in other situations, such as the joints of cast iron furnaces, for instance.

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CONDENSED TIME TABLE.

COMMENCING OCTOBER, 1873.

AALIFAX TOST. JOHN.

| Miles. | STATION | Exp. Pass. Pass. 1st and and Class Frgt Frgt. | | | | | |
|---|---|---|--|---|---|--|--|
| 8 13 26 39 45 52 63 70 87 101 115 | Halitax— Bedford Wind, Janction Mount Uniacke Newport Windsor Hantsport Wolfville Kentville Aylestord Middleton Bridgetown Annapolis—arri | 44 44 44 44 44 44 44 | | 8.00 8.24 8.40 9.18 9.56 10.16 10.36 11.06 11.40 12.25 1.03 1.40 | A. M. 8.45 9.24 10.05 11.02 11.56 12.40 1.20 2.08 2.57 4.15 5.15 6.15 7.15 | 3.00 3.30 3.55 4.45 5.37 6.15 6.44 7.25 | |

| Miles. | STAT | Pass. Pass. Exp and and 1st Frgt. Frgt. Clas | | | | |
|--------|-----------------------|--|----|--|---|-----|
| | St. John by | Steamer | | A. M. | A. M. | 8.0 |
| | Annapolis | Leav | e | | -7.00 | 2.2 |
| | Bridgetown | " | ** | ***** | 5.00 | 2-6 |
| | Middleron | | ** | **** | 9.00 | 3.1 |
| | Aylesford Kentvide | . 44 | | | 11.50 | 4. |
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| 90 | Newport | - 11 | | 8.18 | | |
| 103 | Mount Unia | cke " | ** | 9.18 | | 7. |
| 116 | Windsor Ju | nc. " | | 8 800000000000000000000000000000000000 | E CONTRACTOR DE | |
| | Bedford Halifax-Ar | rive | | 10.28 | | |

Steamer " Scad" or " Empress' leaves St. John on Monday, Wednesday, Friday and Saturday, at 8 a m., for Annapolis, and re-turn same day on arrival of 8 a. m. Express Train from Halifax.

Through Tickets at reduced fares by above routes to all parts of the United States and Canada may be obtained at the Ticket Office, 126 Hollis Street, Haiifax, at Richmond, and the principal Stations on the Railway. P. INNES,

Kentville, 6th Oct., 1873.

18 or 20 feet high, and that won't HALIFAX, N. S., DECEMBER 3, 1873. | Has stood the test of Time.

MESSENGER ALMANACE.

DECEMBER, 1873. Full Moon, December 4th, 0h. 6m. morning. Last Quarter, "11th, 5h. 39m afternoon. New Moon, " 19th, 2h. 35m. afternoon. First Quarter, " 26th. 11h. 50m. morning.

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THE TIDES .- The column of the Moon's Southing gives the time of high water at Parrsboro', Cornwallis, Horton, Hantsport,

Windsor, Newport, and Truro.
High water at Pictou and Cape Tormentine, 2 hours and 11 minutes later than at Halifax At Annapolis, St. John, N. B., and Portland Maine, 3 hours and 25 minutes later, and at establishment. St. John's, Newfoundland 20 minutes earlier, than at Halifax. At Charlottetown, 2 hours | can have artificial denture supplied with less 56 minutes later. At Westport, 2 hours 54 minutes later. At Yai mouth, 2 hours 20 min-

FOR THE LENGTH OF THE DAY .- Add 12 hours to the time of the sun's setting, and from the sum subtract the time of rising.

WOR THE LENGTH OF THE NIGHT -- Sub-6.43. the time of the sun's setting from 12 hou. and to the remainder add the time of rising n. . . . orning.

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