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OFFICIAL ORGAN OF THE AMERICAN MEDICAL ASSOCIATION FOR THE STUDY OF INEBRIETY AND NARCOTICS. EDITED BY T. D. CROTHERS, M. D.

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The Journal of Inebriety

T. D. CROTHERS, M. D., Editor

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The Quarterly Journal of Inebriety.

AUTUMN, 1912.

Psychological Studies of Inebriety.

By T. D. CROTHERS, M. D. Hartford, Conn.

The impression prevails that cell and tissue will show the damage with instruments to throw some light on the ob- made up to the present. session for the use of spirits and follow.

dies, which fail to confirm the theo- found under the microscope. ries of the exact action of alcohol. subject.

A psychological study of the research work in the study of in- history, inherited traits, environebriety and alcoholism can only ment and training is far more accube done in the laboratory with in- rate and is equally as exact as labostruments of precision. Studies of ratory studies of cells and tissue done by spirits and the defective Psychological analysis of causes conditions which preceded its use; and laws of growth and developsections of brain and other tissue ment is the new field of laboratory are supposed to contain evidence work, which promises more startof the first and later injuries, and ling discoveries, than have been

All students of inebriety and the continuous degenerations which alcoholism are conscious of a vast field of cause and effect, culminat-Every now and then some expert ing in these diseases that cannot pathologist will report the findings be reached by the physiological from a group of postmortem stu- laboratory, or determined by lesions

The work done in this field has These are often stated with an been very slight up to the present, assumptive authority that brings and yet sufficient to show that it confusion to the student of this is far more important and full of possibilities than the highest reeases in the best laboratories in scendants. the world.

studies are offered.

prominent. In from sixty to seventy per cent the ancestors of defects, of which complex insaninent.

consumption seemed to be very are unknown. closely associated with inebriety. Thus consumptive parents

It was evident from this that days to two weeks. inebriety and alcoholism were in-

search work of the causes of dis- diseases and conditions of the de-

A certain variable number of As a contribution in outline of drinking parents were followed by what can be done, the following drinking children, but for many reasons this was not uniform. The In an analysis of the causes of children were always defective, but many thousand cases of inebriety the form of defect did not always and alcoholism, heredity stands appear in the inchriety of the descendants.

The same could be said of episuch persons show marked mental lepsies, idiocies and other forms of degeneration. The studies which ties, epilepsies, hysterias, inebriety follow are selected cases for the and consumption are very promi- purpose of bringing into prominence certain ranges of causes con-Reversing the order of this list trolled by laws which at present

The first example brings out the had relation of tuberculosis to inebriety. inebriate children, and linebriate Wm. Brown was a mechanic who parents had consumptive children, had drank at intervals for twenty Insanities, meaning by this term, years of his life. He was fortya great variety of obsessions and two years of age, married and had degenerations of the mental pro- been prosperous and was a steady cesses, sometimes developing into workman. The drink attacks were manias, hallucinations and deliritims preceded by colds, bronchitis and at other times taking on the form so-called grippe. The first attacks of depression and great abnormal were treated with spirits in some weaknesses, were also very promi- form and were followed by a connent in the ancestors of inebriates, tinued use of spirits for from ten

During this time he was often herited degenerations, dating from intoxicated. Then he would bedefects in the ancestors, that could come frightened and stop drinking be studied with more or less exact- and remain temperate for months. ness. It was also evident that a Then another congestive chill and minute knowledge of these an- bronchial cough, and another drink cestorial defects would indicate attack. This had continued for with more or less certainty the twenty years, sometimes two attac culo this F

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this cleared up after a time.

His father was a farmer who had were transmitted. drank in early life, and finally died His mother was a neurotic, highly variety of drugs during her life time. She was a firm believer that nature had provided some remedy to prevent disease and lengthen life and spent a great deal of her time in inebriety. a search for specifics of this kind.

died in infancy from some spasmodie disease. The second was a frail, nervous girl, who died of consumption at 18 years of age. The last years of her life she was mentally disturbed. The grandfather on the mother's side was a alternately and finally died of pneumonia. His wife died from some obscure lung trouble, probably tuberculosis, as it lasted many vears.

On his father's side several members of the family died of consumption at different times. Two of them drank to great excess and lived lives of irregularity. There was clearly an inherited defect which localized in the lungs and Example second, was of a young

tacks a year and oftener. Tuber- inference was very clear that defecculosis had been diagnosed, but tive cell growth, and a tendency to exhaustion from all sorts of causes

There was no history of defecof consumption at 42 years of age. tive surroundings, nutrition or culture. Undoubtedly there was sensitive woman, who took a great neglect to realize the influence of these conditions, and probably no special effort was made to train the children to avoid excesses that would lead to consumption or

The alternation of acute res-Three children were born, one piratory affections and alcoholic obsessions was significant of a neuroses that was traceable to heredity. A careful examination of the patient two months after the subsidence of the drink craze, revealed no lesion of the lung, so that whatever may have been bepassionate roving man, who drank fore, there were no traces now.

Among other causes which were not very clear was the statement that alcohol at first produced most fascinating sensations of comfort and relief. The impressions fof this from early use remained, and when the person felt bad, the memory of the former effects possessed the mind to such an extent, that an effort was made to see if it could be repeated.

low vitality. A condition akin to man, who after continuous use of continuous fatigue and exhaus- spirits carried on through his tion seemed to be prominent. college life, up to 31 years of age, For this alcohol was very grateful died of acute tuberculosis, which as a remedy and a beverage. The developed and terminated in a few

weeks. He was an athlete during His mother was a very passionate, the throat and nose. high wrought woman, who loved rondack region and is under treat- early exhaustion. ment for consumption.

obscure lung trouble. The grandnervous woman and died in early life.

and one of alcoholism. On the emigrants from Germany, and them died in middle life. Of their received Both were drinkers, one was killed the time. in an accident and the other died after a drink excess.

It was evident that this family his early life when in college, and was profoundly infected with nerve used spirits at intervals up to the defects and tuberculosis calling for point of intoxication. Then be relief from spirits. There seemed would abstain for a time, and to be a close relation between one resume them again. His father and the other, and it was noted was an abstainer, but suffered from that all of them suffered from resasthma and died in middle life, piratory affection, principally of

Many children in these families excitement and was very ambi- died in infancy. The family in tious to be thought well of. She both branches were prosperous, and had catarrah and finally died from more than likely suffered from overan attack of acute bronchitis, nutrition, and certainly they had One brother who did not drink the best medical care that could died of consumption at twenty- be had. They were given good four. A sister married and died opportunity for training, but there of consumption at thirty-two. A was a neurotic inheritance manisecond sister is living in the Adi- fest in various ways, ending in

Example third, brings out simi-The grandfather on the paternal lar facts along another range. It side was an army afficer and drank was noted in a family of five, heavily until he died from some that three girls were consumptive and two boys drank, one continumother on the same side was a ously, the other at intervals. The parents were both wine drinkers at the tables and were persons Of the four children born to who occupied a prominent place them three died of consumption in the community. The father claimed to have had tuberculosis maternal side both parents were in early life which was cured by drinking spirits. The mother was drank beer, using it as a medicine a neurotic, and for years suffered as well as a beverage. Both of from abscesses of the glands and extensive medication. children only two lived to grow up. This made her an invalid most of

On the maternal side the parents were misers who had lived in the

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most abstemious way, in the poor- tubercules. Recent studies show abstainers and very active stirring lieving exhaustion and fatigue. people. Two of them were clergyneurotics and suffered from various nervous troubles.

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in this way, showing a relationship variety of clinical experience. between the two diseases which is significant and whether exact under treatment further study will disclose.

At all events the anaesthesia of able expectoration. The spirits diminshed the sensory acti- drawal of the spirits was followed vities and in some unknown way by the subsidence of bronchial

est surroundings and on the cheap- that alcohol produces a very ferest foods. Both died in middle tile soil for the growth of tuberculife from obscure diseases. Of losis, and that a large number of the three children born, two of persons, who use spirits to excess, them drank, one died of pneu- die from tubercular abscesses. Anmonia and the other of some kid- other fact has been brought out, ney trouble. Their children all that respiratory diseases are redied in early life. On the grand- lieved very quickly by different father's side, nearly every member forms of alcohol combined with of the family died of consumption other drugs. The alcohol seems to late in life. Most of them were have a special sedative action re-

Where consumption and inmen, one a lawyer. They were ebriety can be traced in the second or third generation, the assumption that this inherited taint has been These three examples indicate transmitted and will break out in clearly a strain of degeneration some form, according to unknown that was transmitted, terminating causes, is supported by a great

The following class of perhad not been recognized. In a sons is not unfrequently seen, but study of the causes of death in 200 rarely studied. A stalwart, vigocases, 40 per cent were recorded as rous man, who had spent most of due to tuberculosis, occurring after his years in the oil region as an the drink craze had subsided. This engineer and well driver, came with a very or not as to figures, shows a possi- severe attack of bronchitis and bility of a relationship which a asthmatic condition and aphonia. His physician wrote that he had Formerly it was considered good tuberculosis, and that if we could treatment in tuberculosis to keep only help him to abstain from the patient saturated with alcohol. spirits, he might live a little longer. In a few very rare cases, an appa- There was dullness over both rent recovery seemed to follow. lungs, bronchial rales and considerhelped to check the growth of the troubles and in the course of two

worse condition. The lungs were up with many deal of disturbance. In a few ing. was slower.

apparently in excellent health, inchriate. suffering principally from general were not considered drinking track orders.

tuberculosis. The girl died of weakness, after the excesses.

months, no lung lesion could be some obscure disease at 34 years discovered. On the contrary, he of age. In early life they unseemed to be a vigorous healthy doubtedly suffered from malman. The aphonia left him, and nutrition, the parents living on with the exception of a slight nasal coarse | restricted foods. Both catarrh there were no signs of his parents were intensely religious, former troubles. During the next and the children were brought up year, he appeared again in a much to dread a personal devil, mixed superstitions. more congested and the dull areas which narrowed the mental life over both lobes indicated a great and prevented them from develop-

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weeks this passed away. He The grandparents on the maclaimed that the lung trouble com- ternal side were of the same class menced the moment he began to of persons; lumbermen and fardrink spirits, and that aphonia mers, and all of them died of some came on after the first intoxica- form of lung disease in middle tion. He recovered and a year life. On the paternal side there later returned in the same condi- seemed to be no special disease tion, only a little worse and recovery prevalent. The family was very large. The males were raftsmen After recovery he changed his and lived irregular lives, probably residence and occupation and after using spirits, but no member of six years was a total abstainer and the family was known to be an

Several of them were very ecand weakness. The centric, odd persons and were promparents of this man were Pennsyl- inent in religious and political vania farmers living in a mountain circles. The descendants of these region, and while not abstainers, families went West and were lost of. The patient people. Spirits were kept in the treatment claimed that he had house as medicines, and used freely been a total abstainer up to 24 for colds, shocks and other dis- years of age, then, after a severe chill and exposure he became in-The patient was one of three toxicated from drinking hot rum children, who grew to manhood, and from that time on, drank at One entered the army and after intervals, without any special some severe exposure died from symptoms, other than fatigue and

vals, usually following some sis. period of excitement or depression. Another example of tuberculoof them died suddenly, from what the following: was called lung fever; the other cian's care.

diseases.

another equally prominent man symptoms of this disease. was unable to find any signs of tuberculosis. Abstaining out this man's life.

Ten years before admission The combination of two strains every drink attack was followed by of defect, one tuberculosis and severe colds, hoarseness and ob- the other some neuroses with alcostinate catarrh. This was treated holic tendencies is very significant and he recovered. He was an and probably may be duplicated abstainer for two years, then on in many persons whose histories the sudden death of two children, have not been studied. This he drank to excess and immediately particular instance brings out the his lungs became affected. From fact that alcohol lowers the opsonthat time until admission, the drink ic defences of the body and predisattacks had occured at long inter- poses to the growth of tuberculo-

He married a neurotic woman sis breaking out suddenly with and five children were born. Two some far away inherited taint, is

A college student, whose father three are sickly and evidently have had given him large amounts of weak lungs and low vitality, and money, which he spent recklessly are frequently under the physi- in all kinds of dissipation, suddenly developed delusions of a persecu-This case brings out some very tory character. When brought interesting facts of a local in- under my care distinct dullness of herited taint, due to the tubercu- both lobes of the lungs and suslosis of the scond generation back, picious rales were noticed. The and the unexplained fact that spirits were removed and the delualcohol, of all substances, provokes sions disappeared, but an obstiacute symptoms of respiratory nant cough and decided marks of tuberculosis appeared. He was Two physicians have diagnosed taken to a sanitorium and died in tuberculosis in this patient and a few months, with well marked

He had five brothers and sisters from every one of whom became tuberspirits seemed to check the res- culis at or about 25 years of age. piratory diseases. The fear of Two of them recovered and are tuberculosis if alcohol is taken living in Colorado, apparently well. again is a mental obsession that The fourth is an invalid traveling will no doubt go far to lengthen and using spirits moderately. He is married and with his father in-

law and wife is being treated the grandfather which broke out abroad. The fifth is tuberculous in the second generation. The and the wife of a wealthy merchant, use of alcohol seemed rather a and is under treatment at a sanito-symptom indicating a neurosis rium in Pennsylvania. All these that called for relief which this children gave no signs of this di- narcotic gave. sease until after puberty and owing and use wine at the table as a all probability hyper-nutrition, and beverage. They are society people mental excitement stimulated early of the prosperous class, conserva- exhaustion and fatigue, which seemtive, intelligent and abstinent. The reared with the best possible care, early life.

kidneys seemed to be common gradually losis.

distinct neurotic inheritance from several uncles and aunts had died

The early training of these five to the wealth of the parents have children, including the patient received unusual care and treat- seemed to have no recognition of ment. Both parents are well, the possiblity of tuberculosis. In generally ed to call for spirits as a stimulant. children were Later the real neuroses developed.

A marked example of the effect without any untoward event in of a mental obsession was noted in the following:

The grandfather on the father's A dentist 44 years of age, who side was tuberculous and died in for years had been a very active middle life. His wife also died of practitioner came under my care. the same disease. He had five He claimed to have been an abchildren. Three grew up and were stainer up to within the last five free from this disease and were years. Then from over-work he noted as active healthy people, he had used spirits, and could not with no marked family disease, stop until he became thoroughly One died of apoplexy and two of intoxicated. On these occasions heart disease after middle life. he was very stupid and obstinate On the maternal side they were and acted queerly. The remorse farmers and probably used spirits on recovery lasted for some weeks as a medicine. Diseases of the and was very intense. Then he recovered and among them. Cancer appeared the course of a few months rein this side of the family. Two lasped again. During his remembers died of this in middle morseful period he confided his life, and one after a long period of secret obsession that he should die invalidism, died of acute tubercu- at 50 years of age in a paroxysm of drinking, also that his grand-There was here evidence of a father on his mother's side and

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at this period, and that he would years of age from the same disease, follow them.

drink paroxysm and recovered with a more prolonged remorseful period.

out any apprent reasons, such as overwork, mental strain or the causes that had provoked the drink paroxysm before, he drank several days to stupor. Then suddenly acute pneumonia came on which ended fatally. His mind was not clear, so that one could not tell how far the obsession controlled him at the last.

A study of the family history showed that two brothers and one sister were living. The brothers drank more or less, but had been successful in business. The sister married, with a large family and was well and considered in good health. The two brothers were invalids from various diseases, incident to old age.

The parents had both died at ininfancy. about 49 or 50 years of age. The father had been a drinking man in early days, but had abstained in later years. He died from some disease of the kidneys. The mother had been an invalid and died from heart disease. The grandfather on the mother's side died of tuberculosis at 50. His wife also had the same disease and

preceded by alcoholism, rheuma-Two years later he had another tism and various other obscure affections.

On the maternal side the grandfather died at about this period of Finally at 50 years of age, with- life. He was a sea captain and drank heavily when ashore. His wife was a neurotic and invalid and died at 48. Their children all followed about the same way, suffering from alcoholism, tuberculosis and Bright's disease. Their children all died in early life and there were no descendants except the wife of the patient.

The patient was a very credulous man and although very abstemious and careful, became possessed with the thought that he would die, and under the conditions which he did, and this seemed to be dominant in his mind although it was not disclosed, except to the physician.

He married a neurotic woman and two children born, both died

Another example brings out the same fact of obsession in a different way. A physician in middle life, temperate and strong affirmed in confidence to me, that he would die at 60; that his whole family for several generations back had never gone beyond that point, and he could be no exception to them.

The history was as follows: His died at 48. Three children which father and mother, persons of more grew up all died between 45 and 51 than usual means had drank wine at the table in early life and later for several weeks, then, finally used spirits as a medicine and died died, suddenly from obscure diseases of brother was a total abstainer up to 60, when suddenly he began to drink spirits to great excess and was regarded as insane and died in a few months. Both grandparents on the maternal and paternal sides had died from consumption and pneumonia and were so-called moderate drinkers, at or about 55.

From this history the patient concluded that he would die at the same time and under the same conditions. Efforts were made to break up this delusion, with apparent success. He seemed to be in good health, passed his sixtieth birthday with cheer and plans for the future. He was thrown from a carriage and sustained a general shock, followed by a congested cold, and with its profound depression, and intense desire for spirits as a remedy.

This was given to him at intervals with apparent relief, but each day the desire increased, and finally he became stupid. The spirits were withdrawn and delirium followed. Then the spirits were given again and he became quiet. He continued in this condition

The postmortem showed exthe brain and kidneys. His bro- tensive tuberculosis of the milither a clergyman remained tem- ary form, which had escaped the perate up to 55 years of age, and attention of the physician. Unthen used spirits as a medicine and doubtedly the obsession in this died at 58 suddenly. Another case culminated in profound depression and the drink craze and tuberculosis were the most natural sequels.

An example of alcoholic degeneration skipping two generations and breaking out in the third is brought out in the following history. Three sons of a very excellent clergyman began to drink at about wenty years of age and after a few vears of the most excessive dissipation died. Pneumonia and tuberculosis were the terminal diseases at last. In early life they gave no indication of drink neuroses or any special weakness. On the contrary they were very carefully trained for healthy mental and physical life, and seemed to be rather exceptional young men in their promise of future usefulness. They were abstainers up to this time and lovers of athletics. Two of them were preparing for professional life. The other was to begin a business career. One a graduate from college became suddenly fascinated with theatrical work and began to drink to great excess; he became a wanderer and disappeared. Three years afterward he came home a

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wreck and died. The other a through abstinent living acquired that keeper. From time career was continuously down- drink neuroses. ward to death at 25 years of age. In this there was a strong alcoin every respect.

side were temperate The males worked in a factory, mant during this interval. Her brothers and sisters were well and free from any peculiarities noticeable. Her great grandparents were alcoholics and died in early life from excesses.

On the paternal side the father and mother of the clergyman

d

student, suddenly ran away and a great deal of property. The joined the army. He suffered grandparents of the clergyman all from typhoid fever, was discharged, drank to excess and their decame home and became a bar scendents, excepting the father his of the clergyman died from the

The third son became a gambler holic history in the fourth generaand forged notes; he was sent to tion, which for some unknown prison, liberated and after a short reason did not appear again. Then career of dissipation died. Both suddenly it broke out and terparents were healthy, strong minded minated fatally. There seems to persons and lived very temperately be a strong probabliity that this sudden collapse of the three young The grandparents on the mother's men, must have dated back to the people, fourth generation, and some inliving in a manufacturing town. herited taint had remained dor-

No other branches of the family showed this explosive obsession, and the question arises whether it was a coincident or a matter of accident, rather than the inheritance of a degeneration that had been checked through the other members of the family, until were healthy robust people, who finally it exploded in this way.

Further Experiments on the Pathological Effect of Alcohol on Rabbits.

By JULIUS FRIEDENWALD, M. D., Professor of Gastroenterology, and T. F. LEITZ, M. D., associate in Gastroenterology. College of Physicians and Surgeons Baltimore, Md.

It is a well known fact that liver, and that when these subcertain toxic agents given animals stances have been given over a induce peculiar changes in the considerable length of time intervestigations have not been satis- ministration of phosphorus, said to be the cause of actual means of this drug. cirrhosis. time on alcohol.

atmosphere saturated with alcoholic vapor for many months. In those who survived over a long period, a new growth of connecby administering alcohol to animals for considerable periods of time. Friedenwald (5) found an increase of connective tissue in a from 5 to 8 cc. of alcohol daily for in the same way, and for the same noted. Numerous attempts had that with a dose of 1-2 to 1 cc. per

stitial changes are apt to be pro- been made to produce cirrhosis duced. The results of such in- of the liver by the continuous adfactory in as much as the lesion first inducing a degeneration of produced in the liver does not the liver cells, producing a marked possess the features characteristic degeneration of the hepatic cells of cirrhosis found in human beings. with neuroses, which is followed by While alcohol is believed to be the a production of connective tissue. cause of cirrhosis of the liver, yet Aufrecht, (6) Dinkler, (7) and this disease occurs in individuals Ackermann (8) have produced who have not been habituated to experimentally an increase in conthe use of this stimulant, and it is nective tissue by administering ound even in children. In a few small doses of phosphorus to aniinstances the continuous adminis- mals. Aufrecht was able to protration of alcohol in animals is duce a very nodulated liver by

Certain investigators It is a well known fact that notably, Straus and Blocq (1) when chloroform is administered found an increase in connective for a few hours daily, and repeated tissue in a few animals fed a long on successive days, a certain number of liver cells undergo necrosis, Mertens (2) placed rabbits in an especially those around the central 3-5 of each locule. After the recovery the repair takes place quickly and is nearly complete after two weeks, while the liver tive tissue was observed around becomes perfectly normal within the portal spaces. Afanassijew three weeks. Some investigators, (3) as well as V. Kahlden (4) were however, have produced actual unsuccessful in producing cirrhosis cirrhosis in animals by injecting small quantities of chloroform substaneously over long Herter and Williams (9) observed the same condition in dogs from few rabbits, which had received inhalations of chloroform when given for an hour a day for 24 days. four years. In many animals fed By administering chloroform by the mouth the same effect may be period of time no changes were produced. Opie (10) has shown

kilogiam of body weight given on boullion culture of bacteria (colon, three successive days, a most streptococous pyogenes). tablished.

The peculiar relation of bacthe experiments of Welch and Blackstein demonstrated who that colon bacilli as well typhoid bacilli, when injected in the ear vein of rabbits are deposited for some time in the gall bladder. Ruxton and Farrey have shown that the typhoid organism when injected in the peritoneal cavity is soon deposited in various in the liver. In individuals dying of acute bacterial infections one occasionally finds a central necrosis of the lobules of the liver midzonal necrosis. Opie (10) noted this condition in the liver of a child dying of general peritonitis following gonorrhea and suggests that the infrequency of this lesion in comparison to the frequency of severe bacterial infections denotes the presence of some undetermined factor. Opie also demonstrated that the effect of this bacterial infection may be modified by the presence of toxic substances entering the blood. He administered

After marked necrosis is apt to be es- the death of the animal which occurred about the twenty-fourth day, masses and strands of fibrous terial infection to the liver had tissue containing tortuous hyperalways been a matter of great trophied and newly formed bile interest. This is well shown in ducts were observed. A quantity of chloroform which alone can only cause fatty degeneration has been shown by Opie to produce in association with a single large dose of the colon organisms advanced cirrhosis of the liver within 24 hours. This cirrhosis is more advanced within 24 days than that produced by larger doses of chloroform alone when taken over a organs, but in much larger numbers period of a number of months. Opie had also demonstrated that the combination of bacteria and the poison acting with greater intensity reproduces a lesion closely resembling that observed in acute yellow atrophy in man i. e., necrosis and hemorrhage; accumulation of wandering cells; formation of connective tissue replacing parenchymatous elements; a new formation of bile ducts. These are the marked features of these changes. His experiments have conclusively shown that bacteria in combination with a poison, as chloroform or phosphorus may cause changes which neither the to dogs and rabbits chloroform poison, nor the bacteria alone can or phosphorus on successive days produce, and that the bacterial followed by the injection in the ear infection is an important factor in vein of a few cc. of a 24 hour the development of cirrhosis of

the liver. with alcohol published some years individual peculiarities. ago we demonstrated that when 5 could cirrhosis be produced. It which is responsible for the production of this lesion. Inasmuch as Opie was able to produce actual cirrhotic conditions by a combination of a poison (phosphorus, chloroform) and bacteria, it occurred to us, that it might be possible to induce alcoholic cirrhosis in a similar manner.

In our experiments 12 rabbits utilized. These animals were fed on daily doses of 10 to 15 cc. of whiskey or absinthe diluted before feeding with an equal quantity of water. In order to be certain of the exact dosage, these substances were introduced into the stomach through a catheter. In from 5 to 15 minutes after feeding the animals showed signs of intoxication, the movements became sluggish, and unsteady, and in many cases the animals were unable to move. The intoxication passes into a complete stupor, from which the animal cannot be aroused; it awakens in from 3 to 5 hours, and appears normal the following day. These conditions vary much with the

In our experiments dosage, weight of the animal, and

The quantity of alcohol conto 8 cc. of alcohol were given sumed by the animals varied very rabbits over a long period of time, much, according to their size, and that in but 5 out of 120 rabbits strength, and the duration of life. There were three rabbits that outis therefore evident that there is lived the rest; these were utilized another factor, besides the alcohol, for bacteria injections into the ear vein, after having had daily feedings for 11 months. The animals were in good condition, having gained in weight.

Rabbit No. 1. had consumed 3,950 cc. of whiskey.

Rabbit No. 2. had consumed 3,450 cc. of whiskey.

Rabbit No. 3. had consumed 2, 960 of absinthe.

At the end of 11 months 1 cc. of pure boullion culture of pneumoccocus was injected into the ear vein of the three rabbits; the animals remained well, and no apparent injury resulted. One week later, 5 cc. of a pure culture of streptococcus pyogenes was injected into the ear vein of the same three rabbits, the animals were made somewhat ill, but recovered in a few days; another injection of 1 cc.; of the same culture was injected the following week, they all died the following night. At the autopsy aside from a slight congestion of the liver no pathological change was noted. There was not the slightest indication of any cirrhotic condition of the liver. It is therefore evident that alcohol alone or the com- 4. bination of alcohol and bacterial infection is not sufficient to account 5. for the production of cirrhosis of the liver in animals, and that 6. there still remains another factor to account for the phenomenon, which has not as yet been determined.

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Balneology The Science of Bathing

In Balneis Salus (In Bathing is Health)

By CHARLES ROSENTHAL, M. D., Boston, Mass.

This inscription engraved in tary a Roman therma, or bathing establishment, attests the high apprethe efficacy of bathing. The ruins the stations of the Roman legions, so much through superior mili- Camp.

equipment but through letters of gold over the entrance to personal superiority; and as one of the chief means to secure this personal superiority, the Roman legisciation of the ancient Romans of lators provided the people, and especially the soldiers, with faciliof these thermae reveal to us today ties for bathing that still elicit the admiration of the students of the greatest conquerors, the world human history. Our most popuhas ever seen. And here it must lar bathing resorts, Wiesbaden, be borne in mind that the Romans Baden, Aix les Bains, Aqui, etc., had to make their conquests, not trace their origin to the Roman

In a paper read before the New England Electro-Therapeutic association, entitled Hydro-therapy, I had made the central idea of my thesis, as the title implied, the efficacy of water in the treatment of disease, the restoration to health Today, I intend to point out the value of scientific bathing for the preservation of health. I wish here to call especial attention to the word scientific on account of the harm which might be and often is done through lack of knowledge of the principles involved in choosing the proper kind and form of Bath for the different needs of the human constitution. Discrimination and selection is just as much needed here as in a Physician's prescription for his patient.

In my paper on Hydro-therapy, I had called attention to our progress in hygienic provision and the subsequent reduction of the rate of mortality and lengthening of -human life. These results obtained, while highly gratifying, should not cause us to relax in our activity as if a limit had been reached but they should act as a spur to further effort. The average length of human life, which, as I pointed out, is 43 years, is in my opinion far below what nature had intended as the normal length of life of the GENUS HOMO.

Biology teaches us that the average length of life of an organism is about five times the period of growth and development. From 18 to 20 years is about the average length of life required in our latitude to bring the human physical constitution to full maturity. Applying the law of life, we get a longevity from 90 to 100 years. It is my firm conviction that as the race will progress in knowledge and in the recognition of social justice these figures will constitute the normal, instead of the exceptional duration of human life.

But it is not only length of life that should receive our consideration, but also the power to enjoy life and for both these objects a knowledge of the theory of bathing and still more the practical application of the knowledge is of primary importance.

The laws of hygiene are mainly based upon three agencies. Pure air, sufficient sunlight, personal cleanliness. The last is the main object of bathing but by no means the only one.

The purpose of bathing might be summed up as follows:

To secure cleanliness of the surface of the skin.

To promote the proper function of the skin.

To cool and refresh the body.

To stimulate and soothe the mind.

To regulate the blood circulation and bodily heat.

mospheric influence.

swimming.

This numeration shows that personal cleanliness is only one of the many purposes for scientific bathing.

As chief effects produced, might be given: The opening of the pores of the skin, a greater pliableness of muscles, the strengthening of vitality.

The pores of the skin, of which there are about 2800 to the square inch and 7 million in all, must be kept open to secure the orderly function of the other organs of the human body.

To appreciate more fully the need and effect of bathing let us consider he function of the skin.

The function of the skin might be summarized thus:

- To enclose and protect the internal organs against injury.
- 2. To regulate the temperature of the body by respiration and evaporation.
- 3. To eliminate waste material of the body.
- 4. To serve as our sense of touch. The alternate application hot and cold produces a reaction which permeates the entire human system with an enhanced feeling of well-being.

But it is not merely the reaction following the alternate application of hot and cold water which pro-

To harden the skin against at- duces the extraordinary tonic and beneficent effect upon the entire For athletic exercise as in human organism but an inherent tendency for rhythmic contraction all through the vascular system including the vessels must be taken into account.

> Dr. Woods Hutchinson, of Comparative Physiology in the University o Buffalo has coined a word which is expressive of the propulsive action of the cutaneous vessels. He writes of the "skin heart" as a facto in human circulation and it is this skin heart which is acted upon in the alternate application of hot and cold water. The stimulation produced can be enhanced by an addition of salts chiefly such as will be found in sea water and in some cases by the introduction of carbonic acid, but here discretion is necessary. By such means the pulsations of the heart can be lowered in frequency and increased proportionately in power so that the work which was difficult for it, is performed with ease and comfort.

Physiologists have studied the connection between certain areas of the skin and the spinal ganglionic center. The nerves supplying the capillaries connect also the sensory nerves and with nerves surrounding the larger blood vessels both arteries and veins. The nerve endings in the skin, here described, furnish a clew to that remarkable sensitiveness of the

epidermic layer, which opens to disease and he ought to know that hydriatic applications, a free gateand especially to the sympathetic which controls most of the organic system and constitution, physifunctions.

From this, it must be apparent that metabolism (the process of assimilation) and the entire nervous system are strongly affected in the use of sweat, the so-dalled Russian Turkish baths and I maintain, without fear of being accused of speaking PRO DOMO. that an experienced physician should preside over every so-called Turkish bath establishment.

Hyppocrates, who must be considered the father of hygiene, as well as of medicine, lays special emphasis upon the necessity of a periodical and thorough cleansing of the skin not only as a means to retain good health but as a potent factor in prolonging human life. For by keeping the solid parts of the body soft and flexible and making the joints supple, bathing is ever powerfully counteracting that creeping sickness which we call old age.

In the bath, we have also the best means to neutralize the baneful influence of our variable climate and of our mode of life and of restoring what these enemies of our life have vitiated.

As long as man with his healthy organism faithfully observes the laws of his being, he is proof against

disease does not come without cause. way to the central nervous system. There are laws which regulate human life as well as any other cal, mental and moral; and the man who breaks any of these laws should be taught that he must suffer for his transgression.

The man who tries to learn and observe nature's laws such as thorough ventilation, natural diet, cleanliness and to this adds tranquility of mind, will join his efforts to those of nature and lead an ideal life, which life will be more and more realized in the future, as the race increases in knowledge and in the recognition of social justice.

Let us in closing, consider briefly the various kinds and forms of hathing and technique:

Let us first consider temperature Cold Baths 40 to 60 Cool Baths 60 to 80 Warm Baths 80 to 100 Hot Baths 100 to 120

Higher temperatures exist in the so-called Russian Turkish Baths where the heat may reach from 120 to 200 degrees. Cold baths are stimulative and duration should ordinarily not exceed ten minutes.

Warm baths are sedative but become stimulative when temperature is raised above heat of body.

In the so-called Russian Bath the medium is vapour and in the so-called Turkish Batn, hot air. for these forms were used not only 'applications. in the Roman Thermae but were KINDS OF BATHS.

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There are various forms of minlimitation of time forbids an elaboration, but I might say that science constituent elements as are found in the mineral springs of Europe needle baths are extensively used. Pressure, Mass.

Oxygen baths are highly recommended by some of our best authorities. The so-called Nauheim Germany.

extensively practiced, but being gradually abandoned have advocates.

milk bath, an admixture of milk, etc. sheep's milk preferred.

even the blood bath has its advo- the means of treatment. cates in the fraternity. But such is the case.

portance of properly ventilated Both applications are misnemers apartments for hot air and steam

Every hydriatic establishment known to Greeks and Egyptians should be equipped with a swimand most likely to the Atlanteans. ming pool with continuously running filtered water.

But the most important and the eral and sulphur baths of which most differentiated hydriatic treatment is by means of the douche.

A douche consists of a single or has enabled us to furnish the same multiple column of water directed against some portion of the body.

In this application three factors and America. Hot brine and Pine are to be considered: Temperature,

The range of temperatures employed in douches is from 45 degrees to 12 degrees F. The preseffervescent Carbonic acid baths sure oridinarily employed is from have found wide application in 8 to 60 pounds, represented by a water column of 20 to 150 feet. There are many other forms of The mass varies greatly according baths, some of which were once to the effect desired. Douches are are classified according to their al- form; as the horizontal, vertical though I must admit they still or broken jet, vertical or horizontal spray, filiform, needle bath, Of these I might mention the Scotch douche, massage douche,

These various forms of douches The wine bath consisting of an as applied to different parts of the addition of wine or brandy, still body require a knowledge of anaused in France. I think it will be tomy as well as of physics of the a source of surprise to learn that subject to be treated, as well as

Balneology has become a recognized science and a scientifically Speaking of technique and equip- equipped and directed hydriatic ment, I wish to emphasize the im- establishment offers to the medical

practitioners the same facility for tic prescription. Read before the mechanical treatment as does a Boston Medical Society, pharmacy in filling a pharmaceu- 21st, 1913.

Why Do Men Drink Alcoholic Spirits?

By J. T. SEARCY, M. D., Supt., Alabama Insane Asylum, Pres. American Medico-Psychological Association, Tuscaloosa, Ala.

"feel better"; and, from the very beginning of their use, very natubeneficial, because, whatever removes a person's discomfort or adds to his comfort, is generally found to be beneficial.

Reaching back through the generations, with world-wide experience backing it, there has arisen the growing conviction, however, that the use of alcohol is injurious. The so general use of alcoholic liquors, in civilized countries, has been followed with the belief that they are a source of great injury in the body politic, not only because of their hurtful effect upon the great number of persons using them, but their injury reaches through succeeding generations. This opinion has rapidly increased of late.

In the early use of alcohol, in its many mixtures, it was commended as harmless, invigorating, helpful,

Why do men drink alcoholic comforting, stimulating, strengthenliquors can be answered very ing and even nutritious. It was promptly and withal very correctly praised and prized in its private by saying, because they make them and public use as a luxury; and it was very generally administered scientifically as a medicine. But rally, they have been considered this general opinion has been very much backset of late. "The consensus of the competent" in recent years, in popular circles and in scientific, has grown more and more emphatic, contradicting the former opinions, until the current seems now to be setting the other way. The alcohol question, however, is by no means settled; there is still much vehemence of assertion on both sides the line.

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. The scientific aspects of the alcohol question are what it rests upon. What he thinks alcohol does in the body of man, determines the stand any person takes in the use of it himself and determines his stand on the public question. That men take it because it makes them "feel better" still remains an admission by all, and the scientific answer of the opposers of its

use has to explain how that can On the solution of that point rests the science of the whole question.

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the key to it all; and what, physiologically is "the sense of feeling" is behind that.

Sentiency is a faculty or property of all living things; indeed, it is the characteristic which determines any thing to be living; that it is cognizant of agencies impinging upon it in its environment. The first object of effort of all living things is to continue themselves living; this is universal "from monad to man." In order to continue themselves living they have to posess the faculty of sentiency towards outside agencies, however small and simple they may be and however large and complex.

become more and more organized, nervous systems have arisen. Nerve cells are "the units of the nervous system.'' A typical nerve cell consists of a body with afferent fibres bringing living action to it action from it. Nerve centers are their spheres, to the limits of which their afferent and efferent fibres extend.

It is easy to divide the nervous be the case and still injury follow. system into two departments; one the psychic department, with the conscious convoluted cerebrum as The answer to the first part of its center; and the other the subthe question, how does alcohol psychic department, with those make the person feel better, is centers that control the functions of internal organs, as its subconscious center. One of these departments relates to the outside of the man and the other to his inside. One adjusts the whole man to his environment and the other adjusts internal organs to each other. They are separate departments in their functions, looking in different directions:—one outside and the other inside.

The psychic department carrying the living faculty of sentiency to the highest grade called consciousness," of which "feeling" is a part, concentrates in its psychic center all conscious sentiency. Its afferent fibers coming from all As things, exerting themselves parts of the body, in themselves to continue themselves living, have all living and sentient, bring information into its posterior receiving tracts. Some afferent fibres are "specialized," so as to bear only afferent action such as is engendered in the sense organs of seeing, hearing, smelling and tastand efferent fibres bearing living ing; but coming in from every where in the body are other afferent aggregates of nerve-cells, presiding nerve lines, some bearing "tactile" over or controlling activities within sense-action from the surface of the body, and others bearing the sense of comfort or discomfort from internal organs and structures. The

receiving tracts in posterior parts of the cerebrum are the sentiently conscious living structures for the senses, sensations or feelings, received from these directions.

A person feels comfortable when no discomforting action reaches his consciously sentient psychic tracts, a generally normal condition is indicated. The sensating afferent fibres of the psychic department, in the "periphery" of "the nervous system," and the sensating tracts, in the posterior portion of the psychic center, are the structures engaged in "feeling" and have this faculty, as the highest grade of a property that belongs to all living things in biology and to all living atructures of the body. There are all grades of sentiency in biology and in the body of man.

The person, therefore, is comfortable when no discomforting action is brought to the receiving tracts of his cerebrum. It is a negative condition, nothing at the time is discomforting. If a dulled contition of the sensating nerve lines or of the sensating tracts in the cortex, is artificially produced, the subjective sense is the same as if there was nothing discomforting, and the person feels pleased. Some narcotic and anodyne drugs do this.

It is a pleasant condition, much sought for, not to be discomforted. Pleasure and happiness rest upon it. Natural, habitual actions, any-

where in the body, are borne to the receiving tracts as not discomforting; sometimes as actively comforting and pleasant, because they are naturally habituated and constructed for it. Painful, discomforting action comes, because of unusual disintegrating, or disturbing, action in the strucutres somewhere.

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This is the answer to what is "feeling"; next comes, Why do alcoholic liquors make the person feel better?

We have in medicine, a long list of drugs that we administer to dull or obtund feeling; some, most frequently used, are chloroform, ether, nitrous-oxide, chloral, alcohol, the solutions and alkaloids of opium, cocaine hyoscyamin, some of the coal-tar products, nicotine, caffein, and the like; all act chemically upon the sentient, afferent nerve lines and the sensating tracts of the psychic center of man to dull, obtund or entirely suspend their faculty or function of carrying and receiving sensation.

A good explanation of the peculiar affinity of these agents for these structures is, that they harden and in that way blunt the sensibility of these lines and tracts by their affinity for the delicate protoplasmic material that constitutes the neuclei and axes of their cells and fibres. This protoplasm is more delicate in these structures than in the lower grade cells,

fibres and centers of the sub- active and toxic than chloral, other psychic portion of the nervous or chloroform. system, which governs the activiis first acted upon.

In the administration of chloroform or ether, therefore, enough is given to stop the functions of these most delicate structures of the psychic department; and, in conducting anasthesia safely, not enough is given to stop the functions of the subpsychic cente of eternal life; for, in that case, the heart, lungs and other organs would suspend and the man die. In anesthesia, the whole psychic department is suspended, not only the sensory afferent fibres and the sensory tracts, on the receiving side in the brain, but, also, on the executive side, the efferent motorfibres and tracts, and the voluntary muscles; indeed, the conscious cortex and the whole afferent and efferent psychic department is suspended. The lower grade, less delicate cells and fibres of the internal department, however, are allowed to continue in action. Not enough of the anaesthetic is given to stop them.

All the anodynes and anaesthetics, with differences due to the different chemic affinities of each,

It is a pleasant condition, parties of the heart, lungs, etc. It ticularly if there is any discomfort or pain reaching the sensating cortex, to have its sensating ability dulled. Some discomfort is a constant condition of the psychic centers of most persons, and it is pleasant for them to be relieved with any one of these agents. Most persons never know what it is to be entirely comfortable. There are all grades of constant discomfort in different persons; and even in persons apparently normal in their sensating structures, these agents, particularly the milder ones, like caffein, nicotine and alcohol, have a pleasurable effect. No discomfort is brought to the conscious brain, and it has none in itself, so the condition is pleasurable.

The result of this chemic action on sensating lines and cells, when removed, is to render them more sensitive. The frequent use begets an over sensitive condition a hyperaesthesia—in these structures, which is increased by their repeated use. A habitue, who takes any one of them repeatedly, begets a hyperaesthesic psychasthenia, in the sensating structures of the psychic department. This have effect upon these structures. makes him "feel bad" when he Some anodynes, like caffein and ought not; and he knows he can nicotine, are much less toxic than relieve his bad feeling by taking cocaine and morphine; and some more of the drug, and he does so anaesthetics, like alcohol, are less often dragging a lengthening chain

of neurasthenic discomfort—unless it, increases.

by its continued use, is impaired popular use, is increasing rapidly. by it, until he has not the ability irascibility, pugnacity, mendacity, civilized countries. tendency.

The habitual use of alcohol is, in most persons, preceded by a hyperaesthesic psychasthenia, which hereditary diathesis of that kind account for such persons in civilized countries.

Civilized countries, by reason of drugged. His "habit" as he calls the superior psychic abilities of the people, who inhabit them, Alcohol is the least toxic of the excel other less civilized countries anaesthetics. Its injury by re- in commercial competitions. Civipeated use, is not so decided and lized countries exploit the other rapid as that from chloral, nitrous races for their pleasure and advanoxide, chloroform or ether, still it tage. They bring into their lands not only induces a hyperaes besia things necessary for living-parof the afferent lines of sensation ticularly things to feed them and and of the sensating tracts in the keep them warm. They hunt luxposterior cortex, but it also im- uries also from all directions. In pairs the reasoning and the execu- eastern Asia they found caffein in tive structures of the complex tea, and in Arabia, caffein in coffee, psychic center. "Inhibition," on and in Africa, caffein in cola-nuts. the executive side, is impaired by Now whole sections of the world a close or two of it, so the man are engaged in raising caffein plants says and does things he would not for use in civilized lands. The in his normal condition. His will increased importation of cola-nuts, power'.', or general brain strength, from which to make caffein for

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They found a few American to stop his use of the drug. If he Indians using tobacco, and now has any tendencies in his mental whole sections are given to raising make-up to abnormality, such as this plant to furnish nicotine for Opium eroticism, immorality, paranoia, Southeastern Asia is imported in melancholia, mania and the like, large quantities into civilized counthe general psychic injury takes tries; a large part of which is not the direction of the predisposing used as medicine, but in one form or another, is used as a luxury. The Coca leaves of the Andes mountains, which a few Indians used, is now extensively cultivated, is an exhibition, generally, of a and imported, not all for medicine. Alcohol is now manufactured in from his ancestry. It is easy to the largest quantites for civilized use, in one shape or another, as a luxury.

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A few years ago, as the world's and indicated, as soon as the perform or another by women and children everywhere; the men genalcohol as luxuries. The increase in the consumption of all these least toxic of the narcotics has grown enormously in the last hundred years, and is increasing year by year. It is an almost universal narcotics is also increasing.

after the withdrawal of the drug, children in the schools and more they produce an over sensitive dullards not able to keep up with psychasthenia; which renders the their classes, and more adults deperson uncomfortable, unless he is ficient and defective in their mental "doped" with the drug he is abilities. Neurasthenia and psytaking. The "habit" is produced chasthenia, with over sensitive

history goes, one of these narcotic son, who takes any one of them, drugs was taken in separate lands whether caffein, nicotine, alcohol, by some of the people; now they cocaine, morphine, chloral or a are all concentrated into general coal-tar product, on leaving off his popular use in civilized countries. drug for several hours, finds him-In the United States we have self discomforted by a bad feeling adopted the use of these agents that he knows he can relieve with until it is an almost universal cus- more of the drug. The amount tom to use them, to a vastly of the damage done can be estigreater extent than any one of mated by the degree of his general them was ever used in its original malaise and his discomfort, when locality. Caffein is taken in one his drug is stopped. His whole psychic center is often so damaged that he has not the inherent brain erally use caffein, nicotine and strength or "will power" to stop. Such a person is a "drug habitue", an "inebriate", no matter which drug he takes. Some drugs are more toxic, of course, than others: and some persons inherently more neurasthenic or weak nerved than custom to take them, until their others-more easily injured. Some use is hardly noticed or considered. persons are peculiarly and heredi-The popular use of the stronger tarily neurasthenic and psychasthenic, from a parentage given to All these agents have chemic the use of such agents. We are effect upon the delicate proto- begetting many children with inplasm of the sensating nerve lines herent "dope diathesics", by the and tracts of the psychic depart- so general use as luxuries, of such ment and center, to produce a agents. The land is full of chilpleasant effect, which is the object dren and adults, who legitimately sought by the users of them. As have inherited impaired psychic a secondary and resultant effect, centers. There are more nervous

psychic nerve lines and centers,

to them. They are almost universal. "Everybody does it."

To prove to any such person that he has the drug-habit, get him to leave off his drug for twenty four hours.

Alcohol is more psychopathic in are particulary numerous in America its effects than either nicotine or All our charities and corrections caffein; they, like anodynes genare more and more overworked. erally, affect more the sensating Alcoholism comes naturally in afferent nerve lines than the whole an inherent psychasthenic-neuras- psychic center. The so general thenic person descended from par- use in civilized society of these ents given to the use of such drugs. and other agents is begetting a He takes to the use of alcohol, peculiarly psychasthenic hyperbecause of his inherent ready dis- aesthesia in many. They all lead comfort, inherited from "dope to the use, one of the other, and using" parents. The extent of the milder ones to the use of the such habits blinds the attention more toxic, in the individual and in his posterity.

> Why acohol is used is easy to explain in this way, and the same line of study shows why it is injurious.

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The Latest Pathological Action of the Cigarette on the Brain and Nervous System,

By D. H. Kress, M. D., 1616 Milard Ave., Chicago.

The use of cigarettes is rapidly on the increase both in the old and and the new world. The typical pipe of the German has almost disappeared and has been replaced by the cigarette.

Statistics recently published show that the consumption of cigarettes in Germany has increased more than ten fold since 1897, and

during the past five years it has almost doubled.

During the year 1911, over twelve billion cigarettes were used by the Germans, an average of over six hundred for every male smoker. In Germany as in other civilized countries the boys are becoming the chief victims of the habit.

Forty years ago the cigarette treme, I called upon Mr. Lickley, almost unknown crowded out by the cigarette.

consumed in the United States, counting the hand rolled ciga- giving thought to this question. rettes, posibly not less than thirty on good authority that there are by hand to every one manufactured in the factory. There is an increase in the consumption of between one and two billions each year, in spite of the educational and legislative efforts made to prevent the young from using them.

Each day of the year there are probably consumed about eighty million cigarettes at a cost to the of a million dollars.

universal among the boys attending the public schools in some sections of this country. A short rettes or tobacco in some form." cigarettes are doped

in the the Supervisor, and inquired if United States. The pipe and cigar the statement was as represented. were in demand. The pipe is He assured me that the statement now seldom seen upon the streets was based on careful investigaof our large cities. It has been tion during the past eight years and was absolutely correct. The During the year 1912 there were teachers in the schools of California have been for several years

While the habit is not as prevbillion cigarettes. It is estimated alent among the boys of the Eastern states, I am confident that is not less than two cigarettes rolled is more common than is generally supposed by instructors, It is surprising how successfully the cigarette boy can keep the facts concealed even from parents, I have repeatedly met boys who had for two or three years used cigarettes on the sly. When parents made the discovery the habit was usually fixed, and I have found that it is about as difficult to reform a cigarette fiend as it is a morphine consumers of over three quarters fiend. As medical men we have been forced to recognize that the The habit is becoming almost cigarette exerts a mysterious influence over the one who becomes addicted to its use, and in this repect we have been compelled to time ago the statement was made place it in a class by itself and by the Supervisor of Compulsory separate from the pipe or cigar. Education of Los Angeles, that In the past this has been attributed "Seventy-five per cent of the boys to the inhalation of the smoke. over eleven years of age attending There is no doubt that this in part the public schools of that country affords an explanation, but only were addicted to the use of ciga- in part. It has also been held that Thinking this statement rather ex- opium and other narcotic drugs

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and that this was responsible fothe grip they had on the devotee.

Recent investigation and laboratory experiments conducted by the London Lancet have brought out some interesting facts which throw a side light upon this perplexing problem.

In the analytical methods employed the aim was;

First. To determine the amount of nicotine in tobacco leaf.

Second. What relationship existed between the amount of nicotine in any tobacco and the smoke produced from that tobacco.

Third. Is this relationship modified by the way in which the to-bacco is smoked in the pipe, the cigar and the cigarette.

It was found that the tobaccoitself consumed, whether in the cigarette, cigar or pipe seldom contained more than three per cent of nicotine and generally less.

It was discovered, lowever, that there was a considerable difference in the smoke of the cigar, pipe and cigarette.

The cigarette yielded up the least amount of its total nicotine to the smoke formed

The pipe yielded a very large proportion, in some cases 70 or 80 per cent.

The cigar smoker gave figures midway between the pipe and the cigarette.

Thus far it would appear that the cigarette was the least harmful form of smoking, providing the smoke was not inhaled, and that the smoker of the pipe runs the greatest risk of nicotine poisoning.

This did not accord with past practical observations, hence the question arose if nicotine was after all the most toxic factor in the cigarette smoke.

From the result of the experiments conducted to ascertain the nature of other products present, it seems that the contention regarding poisoning resulting from tobacco will no longer be determined by the amount of nicotine present, but by the presence of hitherto only dimly perceived and never scientifically demonstrated by-products liberated in the combustion of tobacco.

Among the by-products was found furfural, belonging to the class of bodies known as aldehydes. To aldehydes the poisonous effects of crude, immature whiskey are ascribed. The furfural contained in the smoke of even one cigarette is as much as is present in a couple of fluid ounces of this whiskey.

The fact that only a trace of furfural is found in the smoke from the pipe and is altogether absent in the smoke of the cigar, naturally leads us to suspect that furfural is responsible for the ill effects of excessive cigarette smoking and the strange infatuation it exerts over its devotee.

Aldehydes, of which furfural is a excessive secretion of the mucus type, are pungent substances and excessively irritating to the mucus membrane of the throat and lungs. Throat troubles, it is well known, use of the cigarette. This also affords an explanation of the fact long recognized, that the cigarette paves the way for pulmonary tuberculosis.

the process of secret known only by a few. We know, however, that to cigarette tobacco, glycerine, sugar, added.

tion produce these irritating aldehydes. Furfural the principal aldehyde being present in large quantities, is said to be fifty times as poisonous as ordinary alcohol, and that small doses cause "symptoms of transient irritation, such as ataxia, tremors, and twitching."

of over-indulgence in eigarettes is an almost impossible task. a chronic inflammation of the throat Twelve years ago when the use

gland. This is not ascribed to the specific action of nicotine but to the presence of the aldehydes.

In addition to the glycerine, are commonly associated with the which is added to moisten the tobacco, saltpeter has also been added to make it burn. The "Lancet" report says, "It is clear to us that cigarette smoke contains injurious constituents other than It is generally understood that nicotine, amongst which may be manufacturing counted aldehydes, including acrycigarette tobacco is a profound laldehyde or acrolein, a class of bodies which are intensely irritatthe ing."

The "Lancet" promises further and other sweet substances, are analysis of these products. It is, of course, a matter of profound These in the process of combus- interest which deserves immediate and adequate attention.

I am convinced that but few appreciate as yet the devitalizing and demoralizing influence of cigarettes upon the growing boy. China did not fully appreciate the evils of opium until almost her entire people were hopelessly enslaved This explains the trembling hand by the habit. Then she felt imand the characteristic handwriting pelled to make a sacrifice of over of the cigarette boy. In adequate thirty million dollars which she quantities furfural "gives rise to annually received as revenue, in epileptiform convulsions, general order to save herself from total muscular paralysis, ending in para-demoralization and annihilation. lysis of the respiratory muscles." She has been making a brave fight One of the commonest effects for several years, but she finds it

and upper parts of the respiratory of cigarettes was about as prevapassages leading to hoarseness and lent in the schools of Japan as they

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are today in the United States, a of the nation to shine forth over bill was introduced into the House Representatives prohibiting the use of cigarettes by young men under twenty-one years of age. This bill passed the house and became a law on the first day of April, 1900.

In introducing the bill Mr. S. tree good. Nemoto, a member of the house said, "I would like briefly to give you reasons why we have introduced this bill. Recently even have come to smoke cheap, imcondition of countries like China or accomplishing that." India, because tobacco like opium standpoint of our national policy, sults in physical, mental and moral ing of tobacco by children and gins the use of cigarettes at the young people." He further made tender age of eleven or twelve the significant statement, "If we years will doubtless become a deexpect to make this nation superi- generate. He will be a failure in or to the nations of Europe and school or in any profession he may America", which, of course, is take up later. their aim and ambition, "we must

the world, we ought not to follow the example of China or India."

What the future of any country will be may be determined by the boys of the present. A corrupt tree cannot bring forth good fruit. The remedy lies in making the

Some time ago a Judge of the Juvenile Court in California said to me, "If this cigarette craze continues among our boys as it has children in our common schools in the few years past, the next generation of boys won't be worth ported cigarettes, the consequences killing." To which I replied, of which, we fear, may bring our "Judge I fear there will be none to country down to the miserable kill, the cigarette is capable of

The cigarette is becoming a contains narcotic poisons which greater national evil than alcohol. benumb the nervous system and It strikes down or blasts the youth weaken the mental power of chil- of our country upon whom we must dren addicted to smoking and thus depend for its perpetuation. The give a death-blow to the vitality eigarette prevents development of of the nation. Therefore from the both mind and body. Its use rewe must strictly prohibit the smok- deterioration. The boy who be-

President David Starr Jordan not allow our youths in common of Leland Stanford University, schools, who are to become the who has been a close observer of fathers and mothers of our coun- the influence of the cigarette upon try in the near future, to smoke. the boy, said, "The boys who smoke If we desire to cause the light of cigarettes, rarely make failures in after life, becaues they do not have smoking before his fifteenth year never enters the life of the world. When the other boys are taking cerned with the sexton and undertaker."

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Navy were rejected owing to demost instances they are due to defective vision. Mr. Harriman, the railroad king, once said, "Cigarette users are unsafe. I would just as soon think of getting my employes out of the insane asylum as to employ cigarette users."

Its deteriorating influence on the optic nerve merely indicates its influence upon the entire nervous system, including the brain.

Judge W. N. Gemmill of the Court of Domestic Relations, Chicago, recently made the statement that of the twenty-five thousand or more criminals that have passed before him, many of them had the tell-tale yellow stains on their fingers. He said, "Nearly all the men and women who had lost the faculty of blushing smoked cigarettes."

Dr. Coffin who has for a number any after life. The boy who begins of years been connected with the Whittier Reform School of California informed me a short time ago, in a visit to the place, that hold of the world's work, he is con- ninety-eight per cent of all the criminals that have passed through the school were cigarette users and Recently in Canada seventy- ninety-five per cent were cigarette five per cent of the recruits for the fiends. Whenever I read of a cold blooded premeditated murfective vision attributed to the der or some other dastardly crime, cigarette and moving picture show. I am prepared for the information The cigarette is undoubtedly the which I usually get on investigachief factor in this nerve deteri- tion that the culprit was a cigarette oration. Accidents by land and fiend. As an illustration in the sea are rapidly increasing and in murder recently committed in the city of Chicago by Charles N. Conway, a reporter who visited him found him sitting in his cell unconcerned, smoking cigarettes while talked volubly to one who would listen, cracking jokes as though nothing out of the ordinary had taken place. On being asked, "Doesn't the thought trouble you that you killed the woman, even as you say it was in self-defense?" He replied, "Well it doesn't worry me, as far as my trial is concerned." The reporter then inquired, "Why did you tie the body up with robes?" Conway then in an off hand way said, "Give me a cigarette before I answer any more questions."

> Recently in one of our Eastern cities fires broke out frequently in various parts, finally the culprit, a boy twelve years of age was

caught. The mother said to the life's battle, and is regarded as an the boy. Cigarettes have turned be taken in charge.

and full of brains and ambition, now he can't think; he can't hold a subject in his mind. He was a stenographer, but now he is nothing and God only knows if a good doctor and good nursing can restore him.

Another in writing to me says, "I have a son who has just ruined himself with cigarettes. He is twenty and unable to study or became a victim of this evil habit. entire disposition. He will without clothes to purchase cigarettes, and as he is my only boy and I had hoped much for him, I have felt I could not give him up. This is my only excuse for troubling you, etc." These cases, we all know, who have had to do with the cigarette addict, are not overdrawn. They present actual facts.

. If the use of cigarettes increases at the same rate during the next is handicapped in a measure in future?

reporter, "We can do nothing with object of pity, but if that boy marries his children will have two his head," and requested that he sound arms and legs, With the boy whose brain is crippled with A mother in writing for help cigarettes it is different. His said, "Smoking eigarettes has made children are born with crippled a wreck of my son, once bright brains and crippled hearts. Thus each generation of smokers becomes more degenerate until they are finally wiped out.

We pass rigid laws to shut out of our country defectives and criminals, but we permit and sanction by law for a few paltry pence of revenue, an evil which is turning our most promising youths into defectives and criminals.

When the boll-weevil was disuse his mind in any way. He was covered in the South we turned very bright and capable until he the Government scientists loose, and authorized them to spend the This seems to have changed his taxpayer's money liberally in hope of defending our National Cotton Crop. Shall we give less protection to our National crop of boys? Shall we continue to close our eyes to this monstrous evil which is leaving its blight everywhere? Shall we follow the example of our more enlightened countries as Japan and China and suppress the manufacture and sale of cigarettes to our youth, or shall we continue to fold our hands and ten years as it has during the past allow this juggernaut to pass unmoten, what can we hope or expect in lested through our main thorregard to our country's future? oughfares crushing out the very The boy with a crippled leg or arm life and the hope of the country's

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POTTSVILLE, Pa., Nov. 30.— really caused the murder.

cians interested in all lines of re- that the fact that Radler is a form, the time has come, and the "cigarette fiend" must be taken hour has struck, when we should into consideration. The judge place ourselves unmistakably upon pointed to the tobacco-stained finrecord as a body as to our gers of the defendant and said the attitude toward the cigarette, and fact that he smoked a pound of toby voice, pen and vote, do what we bacco each week in making cigarcan to forever eliminate the evil. ettes was proof, in his mind, that CIGARETTES FREE SLAYER. Radler's brain was affected, and Judge Brumm, in charging the jury returned a verdict of not jury in the case of Edward Rad- guilty and requested the judge to ler of Hasleton, accused of the mur- make the defendant swear never to der of Charles Williams, following smoke another cigarette.

Recognition of the Economic Menace of Alcohol.

By JOHN W. W. WAINWRIGHT, M. D., New York.

thesis on the Economic Menace of Alcohol, I desire at the outset to state that I shall confine my remarks to the economic features, with but only brief references to predisposition, environmental influences and suggestions for its control, leaving to others the much discussed question of heredity, environment, pathology and treatment.

The economic menace of the use, habitual or occasional of alcoholic

In presenting to this Society a thropists and statesmen throughout the world. Writers have been busy, as witness the scientific and lay literature which has appeared in the last decade. Laws have been proposed and enacted in a number of States in our own country, as well as abroad. Segregation and the unsexing of habitual drunkards is advocated by some; moral suasion, and a propaganda of education by others. Religious and industrial societies, as well as inebriate homes, State and private, beverages is exercising the minds have all been advocated and placed of financiers, moralists, philan- in evidence, but the prisons, alms-

houses, houses of correction as well as the bread line continue to claim their own. Saloons, cafes and hotel bars are everywhere Recent statistics prosperous. show increase an enormous in the consumption of alcoholic beverages for which the industries of the world are taxed a prodigious sum, a sum indeed that staggers us to contemplate. And yet the high price of living continues to mount higher, the burden being largely borne by the wage earner.

Who is it that indulges in alcoholic beverages, and why? This is a difficult question to answer, for observation would indicate that all men and many women use them, if not habitually, at least upon occasions. It is true that comparatively few of those who do indulge become alcoholics or inebriates; that many live to their life expectancy, enjoy good health and die from causes that bear no relation to the use of alcohol. It is not such men, however, that stand in need of moral uplift or medical attention; whose morals or length of life, happiness of selves or family are saddificed through intoxicants. It is not the sane, stable and moderate use of intoxicants that exercises the philanthropist or the humane. It is the indulgence by the unfortunate; the neurotic, unstable, misfits, unfits. It is not the well poised that become a menace to

society; who find their way into penal or eleemosynary institutions. who make up the army of irresponsible tourist mendicants, who become frequenters of the bread line. True there are the unfortunates who find themselves impoverished in middle or late life, but these cases are more often result from other causes than a too frequent indulgence in alcoholics. It is the fact, however, that only in exceptional cases where antecedents are known to have been alcoholics or otherwise unstable can we predict in early manhood a heredity that would justify us in proscribing alcoholics with a conviction that its use even in a very moderate and infrequent manner was likely to prove disastrous. It is also equally true that because we are unable to predict the environmental development of man that we are justified in sounding the alarm.

Concerning the influence of environment, I shall only refer to the influence which associations undoubtedly exert in favoring an indulgence in alcoholics. Young men are very apt to pattern after middle aged successful professional and business men. They note or learn that the head of a firm or corporation indulges in one or two cocktails before the midday meal, especially in cities where commercial men partake of the luncheon in restaurants instead of their

homes; and that he frequents his alcoholic optimism is less than foris prompt at his office in the ment. morning, when he has important business with apparently notable success. Such a man becomes the idol of the younger employes who agree among themselves that all this fuss about the danger of moderate drinking is nonsense.

of dining out; being a fluent speaker some of his pupils are usually the wine consumed, the flushed face and sometimes crude remarks when delivering an address or replying to a toast. The subordinate engineer, motorman pilot, chauffeur, etc., observes his superior after duty make his way to a saloon; is perhaps flattered by an invitation to partake, and, well nothing goes wrong with the engineer, or motorman, so thoughts of danger in an occasional indulgence never occurs to them, and they soon fall into the same habits. Fortunately the people are becoming close observers and more often than formerly the true cause for accidents, crimes, etc., become known. It may be true, as claimed, that the loss of life and property

club or attends banquets at night merly, but if so it can be traced to where he indulges rather frequently surveillance rather than to moral imbut never causes a scene. He provement, machinery or equip-

As a predisposing cause to acciinterviews with heads of depart- dents through the use of alcoholics ments, and otherwise directs the Wm. J. Boos, a German physician, declared at the recent International Congress on Hygiene and Deniography held in Washington, D. C., that "workmen in his country between the ages of 22 and 44 years addicted to the use of alco-The teacher is known to be fond holic beverages, suffered from accidents 3 to 1 as compared with abstainers, or three times more accipresent and make mental note of dents than in all other workmen. And that the days absent from work because of illness resulting from such injuries are four times greater than those incurred by all the other workmen. It had been shown that if the accidents caused through the use of alcoholics could be eliminated, 7 per cent of all of them would be prevented, while a saving to the German Sick Benefit Societies for the year 1897 alone would have been 4,500,000 marks, or \$1,125,000 dollars."

These cases are not the forms Thus the harm from environment. of alcoholism signalized by intoxication in the workmen that are the most serious as predisposing to accidents. The types of these drinkers are the week-end drinker and the habitual daily drinker. The former figure proannually which can be traced to minently in such accidents as

into itions, esponio bed line. inates rished these from quent is the excepts are ics or redict that ribing that lerate likely also e are vironthat the eno the un-

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heon their occur on Monday, or in general the day following a holiday, when accidents are far more common than on other days of the week. The Monday accidents result from the paralyzing effect of the Saturday night or Sunday debauch; the hangover which may, generhours or longer.

are consumed daily by the habitual drinker are not sufficient to produce a real intoxication, but does considerably reduce the alertness of the individual. He suffers a loss of acuteness of hearing and of vision, while in fact, all of the mental processes or functions are retarded. In some cases there is color blindness, and this doubtless plays a prominent part in railof the engineers or drivers ability nation of the employee. to distinguish the colors of the signals.

We have known for some time, by myself and published in my journal, The American Practitioner, for August, 1912, that employes occupying responsible positions with companies, banks, trust insurance companies, corporations, commercial houses, etc., were required to furnish a bond to their bonding company at a rate corres-

is also well known that employes so bonded are under surveillance, not only by the bonding corporation, but the institution employing them. This surveillance includes their habits, both in public and private, as well as associates, male and female. Late suppers ally does, last for twenty-four in questionable company, theater parties, automobile rides, time. The quantities of alcoholics which place and conduct when on yacations or week-end trips out of town are all noted by secret agents of the bonding company, as well as of the employers. Any lapse from strict habits of temperance, or conduct in general, late hours, questionable companions, or visits to places of shady morals; saloons. all-nights resorts, etc., brings in exceptional cases a warning, usually, however, a request to be reroad accidents because of a failure lieved from the bond or the resig-

An instance in point recently came to the writer's knowledge. The paying teller of an old es-I quote from an editorial written tablished and conservative bank in a large city in the east, who had been employed in the same institution as bey, youth and man for twenty years? well respected by his friends and acquaintances, trusted by his employers grew to be a regular attendant at a city club, of which he was a member; employers, this usually being by a whether because he found a more congenial atmosphere there than ponding to the financial and other at home, we do not know. He responsibilities of the position. It was sociably inclined and popular;

with some women in the car. The next day an agent of the bonding company notified the bank president that his company wished to be released from the bond given the bank for its paying teller's good behavior. The man was asked for his resignation, and thus came to a halt a most exemplary and promising career. This is not an exceptional case. Happily, however, for in like instances, the public never knew why Mr. B. left the bank.

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This editorial is not a preachment; does not reflect the writer's nor is it a temperance lecture. The reason for its appearance in a the attitude of employers to exact safe, sane, skilful service from all those hired to do a special work, and especially those who treat the sick. The bank teller had committed no crime it is true, but was he to be trusted? Is a man when under the exhibitanting, or contra, the depressing effect of alcohol as sure of himself; has he the same president's viewpoint, the man who

indulged in cards, took two or drinks may in a moment of unusual three drinks of whiskey during the optimism favor "a friend" by evening, had been seen with other loaning him money, signing his members of the club automobile note, endorsing his check; engage riding, once with his face some- with him in a questionable financial what flushed, laughing and joking scheme; go with one equally optimistic, in an automobile, to a gambling house, or to call upon some fascinating ladies; visit a cafe, drink and be seen by a depositor in the bank.

> Now, if this can be said of one whose sole responsibility rests with handling other people's moneys what about the man who has in his care or keeping others lives?

We are all acquainted with good. the family and friends, as is usual brilliant men, physicians, surgeons who have had a large practice, but who are not doing so well now. Others in the same line are doing better than formerly. Is it for attitude towards men's conduct; lack of confidence in the older or increasing respect for the skilful attainments of the younger? This medical journal is its bearing on is an age of discernment; we are growing acute, learning more about health matters; are more appreciative of sound bodies, demand the best in all things that promote and conserve the health of ourselves and ours. It will shock those of the old school to be told that they will not be tolerated in sick room with the smell of whiskey on their breath, but the fact remains that cool dispassionate judgment, the strict abstinence from indulgence, steady eye, hand, as when per- if not now universally demanded, fectly normal? From the bank s rapidly approaching. He who bserves will learn.

I believe that the public as well as the employers should be safeguarded by a thorough examination of all employes, especially railway engineers, electric motormen, chauffeurs, river and other steamship masters, pilots and engineers, stationary engineers, etc., similar to the examinations for applicants for life, health and accident insurance, and that a definite contract between employer and employes should be entered into. The family history should be carefully gone into, a searching physiexamination made habits carefully enquired into and noted immediately suspend or discharge an employee pending a trial; if it the days following holidays. were found that untrue answers offender should be disbarred. The Workingmen's Compensation Act set in force in Massachusetts July 1911, and similar laws enacted in other States, notably New Jersey, are unjust as they compel the employer to compensate employes for injuries or losses due to any and all accidents occurring during working hours, no matter whether the accident was due to the care-

lessness of the injured one or another: a drunken employee, one of the hangovers elsewhere referred to, in this instance the drunken employee, as well as the innocent one must receive a benefit. This is obviously an injustice to the employer, and if allowed to remain in force will cause great hardships: compensation for injuries in accidents over which he can, as at present, have no control.

It is a compulsory condition of employment with strict surveillance of the habits of the employee that is needed rather than persuasion or preaching. Corporations, in the contract, and only such in- public utilities, etc., should dedividuals given responsible posi- mand strict temperance at all tions as fill the requirements for times and total abstinence during the position. The contract should working hours, with an inspection grant the employer the right to or certificate of a clear bill of health on Monday morning and

Statistics compiled for 1905 by had been given and entered in the medical directors of Life Insurcontract, or that violations of an ance Companies show that for approved uniform set of rules which each of 106 causes of adult deaths had been subscribed to, then the in a population of 86,874,996 in the United States and possessions 85,897 deaths, 5.1 per cent of all ages, or 7.7 per cent of the supposed adult mortality at the age of 20 and upward, could probably be declared as an alcohol mortality. Vast sums are spent annually in trying to keep employes honest. Why not turn our attention to a much more needed reform, that of keeping them sane.

The Quarterly Journal of Inebriety.

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Editorials.

CHANGE OF PUBLISHERS.

The Quarterly Journal of Ine-

the Study of Alcohol and Other recognized before. ject.

aim to make this journal international, and reach every physiin the scientific study of the alcoholic problem.

business and subscription matters, at Boston, Mass., and to the Editor, The publication in England of Dr. T. D. Crothers, Hartford, Conn., the addresses of fifty different all exchanges, contributions and physicians on the alcoholic proiterary notes.

WASHINGTON MEETING.

The past year has been of more briety will hereafter be issued by than usual interest in the progress the Therapeutic Publishing Com- of the study of alcoholism and inpany of 703 Washington Street, ebriety. While there has been no Dorchester Dist., Boston, Mass. startling new paper published, a Plans for a new and larger jour- large number of confirmatory nal have been completed. The studies have appeared in a numpapers read at the Annual Meet- ber of journals and have taken, a ing of the American Society for somewhat prominent place, not The annual Narcotics, will be published during meeting of our Society at Washingthe year, together with many im- ton will be memorable for the portant new studies on this sub- large number of very clearly expressed papers, free from state-Both the editor and publisher ments that critics would call extravagant.

Sixteen of the authors of 32 cian and every society interested papers were present and read their contributions, and those that were sent by persons who could not be Address the publisher on all there, were read by others, and attracted much attention.

> blem in separate volume

was very significant. These physicians were asked to deliver addresses on the alcoholic problem, at the annual meeting of the British Medical Association in different halls and churches, during the meeting of this association.

There were no fixed theories to be presented. Each one was left free to state his conclusions, as a medical man, concerning alcohol and its effects. The volume published, giving a record of what they said, indicates a very great revolution in medical circles, concerning alcohol in Great Britain.

The Congress of Hygiene at Washington brought out several good papers along these lines that were very highly applauded. A large number of physicians in this country are very deeply interested in the problems that come from the use of alcohol, but show great timidity in expressing themselves for fear of being allied with political organizations and reformers who are so urgent to utilize all the support they can get from any source.

The great effort of our Society will be during the coming year to concentrate these efforts and nake the Journal the special organ for the best studies along this line. A change of publishers and a rearrangement of many of the conditions will enable us to do more than has ever been done pefore.

SOME DISTINCTIONS.

The use of the terms Inebriety and Alcoholism, as interchangeable, one with another, is not accurate. There are a certain number of persons who are literally alcoholics and poisoned by this particular drug. They have all the marks of poison and should not be called inebriates, dipsomaniacs or any other of the names used to describe the effects of the excessive use of spirits.

The alcoholic is usually the secalled moderate drinker, or one who uses spirits continuously. He is toxaemic and suffering from the direct effects of spirits. The inebriate is one who drinks to great excess, then abstains, and has irregular periods of freedom from all use of spirits. During this interval he may be well to all appearances, and show little or no sign of the effects of alcohol. Then spirits will be taken for the most complex causes, often unknown, that are literally obsessions, neurotic paroxysms, states of pain. fatigue and suffering, that call for relief, and demand this particular kind of drug. When the system is saturated, a degree of exhaustion follows and the neurosis subsides, and the drink paroxysm appears. For the time being, such persons are toxaemic, but the real causes are behind that, often they are nerve spasms, convulsive neuroses, and derangement

of functions, calling for help in In the treatment, the inebriate coholic.

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holic is very likely to have delirium tremens. The system becomes profoundly saturated spirits, that co-ordination and correlation of the senses may be broken up. The inebriate rarely has delirium tremens. He may time, but this soon disappears. states of dementia which may merge into a great variety of acute organic diseases. The alcoholic dies of pneumonia, nephritis and tuberculosis. The inebriate may have these diseases but they are uncommon. The alcoholic is a criminal, a pauper, and a general degenerate. The inebriate may develop epilepsy, acute mania, suicide, different forms of insanity from which he will recover in some degree. He will have delusions of persecution and disorder of the senses. He will take drugs drug takers.

certain directions. These are in- recovers and resumes his former ebriates, and present many differ- condition very largely. The alcoent symptoms from that of the al- holic never recovers. The spirits are removed but other lesions ap-The use of alcohol is only a pear which defy treatment. The symptom, which may take on alcoholic of a few years duration some other form. It will be evi- has never the same vigor, cleardent that the treatment should ness of perception and ability to recognize the difference between control that he had before. Varithese two conditions. The alco- ous organic diseases are likely to break out any time.

The heart and stomach suffer with most acutely. The inebriate may recover and go on for years, with apparently little degeneration. He may work automatically, and seem to be very much the same as have alcoholic delirium for a short before. Demands for new work along new lines bring out his weak-He may have paresis, different ness, but without any particular strains or drains, he may appear to be in normal condition of mind and body.

The prognosis is always in favor of the inebriate. His longevity is greater, and his prospect of recovery is better.

Many years ago Dr. Bucknell of England paid a visit to this country and visited the Inebriate Asylum at Binghamton, New York. He could see nothing in the institution worthy of the slightest commendation. He condemned the principles and the plan and the of any kind that will quiet him. work, in a most authorative way. Many drug takers are inebriates The years rolled around, and his at first, but alcoholics are rarely conclusions showed his inability to comprehend a subject, that he of

all others; should have had some acute and broad conceptions.

Recently Dr. Mercier an equally strong man has taken upon him- few years. self the task of condemning tem-

most superficial way, but when prise.

PROGRESS IN GERMANY.

bring out with great emphasis the very intimate relation between the use of alcohol, including beers and wines, and disease and mortality. Wherever the largest amount of spirits are consumed, this is trace- direction, and the great German in Munich where beer of a very high quality is drank to great excess, diseases of the heart are more prevalent.

In circles where the highest kind of efficiency is called for, the retarding influence of beer and spirits is noted. This has led to very exhaustive studies, out of which have grown over a dozen different societies, all having for their central object, to stop the use of spirits as a beverage.

These societies are what is called idea of as he was an alienist of very in this country, temperance and total abstinent organizations, and have grown enormously in the last

The spirit interests have of course perance workers and their conclu- opposed them very sharply, but sions, based on statistics, which on this has only served to bring them the face of them are not correct, into greater prominence. Lodges, We are all familiar with the associations, orders, church sociecriticisms and condemnations of tide and all sorts of organizations persons who have little or no know- are coming into prominence with ledge of the subject, except in the anti-alcoholic purposes and plans.

The Emperor of Germany has experts come into the field with shown his great sympathy for the assumptions of the last words on work, and strongly favors abolishing the subject, it is a matter of sur- all use of spirits in the army. In the meantime many of the great universities have contributed start-Statistics of disease and death ling papers, showing the destructive influence of alcohol, and these have been copied abroad, and have given a tremendous impetus to anti-alcoholic studies.

The interest is growing in every able, beyond any question. Thus Empire will very soon be ranked among the most advance countries of the world, where total abstinence is a reality.

THE THIRD BIENNIAL IN-TERNATIONAL PROHIBITION CONFEDERATION, of representatives from forty different countries in the world, will meet at Milan, Italy, Sept. 22, 1913, for a confedence of the best means and measures to promote the abolition of the alcoholic traffic, and the use

of alcohol as a beverage in the extreme opinions. He is really

This will be the third meeting of this character, and has already its magnitude and purposes. Every civilized nation in the world is represented. Many of these are the most distinguished scholars, physicians and statesmen, and all have a common purpose to bring about a revolution in the traditions and customs of civilization. Hon. Guy Hayer of England is President, and among the Vice-Presidents are many very distinguished scientists from all over the world.

Prohibition, revolution and evolution in the great questions which surround the alcoholic problem are going to follow in the future absolute certainty. The beverage is written in unmistakable characters, on the walls of today and tomorrow, and the Milan meeting will give new expression and new force to the new civilization of human growth and progress.

DELUSIONAL STUPIDITY.

Every now and then some prominent physician or professional man will introduce his lectures and remarks on alcohol and temperance, with the statement that he personally is not an abstainer. The inference is that what he shall say on this subject will be conservative,

expressing his belief in the old time delusion that the stimulant action of alcohol brought out suassumed a startling significance in perior intellectual vision and clearness of expression; and that his use of spirits in supposed great moderation, makes him a much better judge of the subject, than one who abstains. Literally this expression is evidence of profound ignorance of the modern views of alcohol and the teachings of science concerning its effects on the brain.

The assumption that any use of spirits gives him a clearer conception of the subject is contradicted by exact experiments and scientific research. A single glass of spirits shows a measurable depression of the intellectual capacity and ability to reason correctly. doom of the liquor traffic as a It leaves a judgment that is uncertain and changeable. The narcotic effect of spirits even in great moderation, weakens the consciousness of expressions and the meaning of statements.

Hence the assertion that the speaker is a non-abstainer creates a suspicion that what he shall say on the subject will lack soundness and wisdom. If one was to discuss mental weakness and state that he, himself had been feeble minded at times, it is very doubtful if his statements would be received with credit.

It ought to be assumed that judicial and free from all bias and every man who ventures before an

audience to instruct them on any alone was over \$5000 and fitness.

COST OF INEBRIETY. Eraepellin's Clinic at Munich, has years. made a study of the actual cost of inebriety in 42 cases. These cases were all called alcoholics, and probably this term was used to designate the excessive use of spirits. They are classified according to WHO ARE THE AUTHORITIES. age, the largest number being from twenty years of age.

were married, three widowers and dogmatic. \$5000.00 per year.

ber through disease and depen- wider study. dence on their friends, amounted

important subject should have some up the actual cost to the state, to claims to superiority in knowledge the families, from penal and hos-When this know- pital treatment, also home treatledge is based on personal experi- ment, it was found to be over ence it is narrow and biased. No \$1453 yearly for each person. use of alcohol ever brings with it That was the actual money paid knowledge that is clear and accu- out to take care of these persons. rate, and no moderate drinker Evidently this sum is far below can comprehend clearly and with- the cost of inebriates and alcohoout bias the subject he is discussing. lies in this country. One authority estimates it at over \$1000.00 a Dr. Sigg, a physician in Prof. year for an average period of ten

> In an institution, they could be maintained for about \$100 a year, and to much greater advantage than elsewhere. These figures are very significant.

Who are the authorities that can forty to fifty, the next from thirty- direct us is the question that is one to forty, and then decreasing sometimes presented? The anfrom sixty to seventy, only one, swer is simple, students who are and none of them were under studying the alcoholic and inebriate, whose scientific spirit and en-Nineteen were single, fifteen thusiasm are never assertive or They state conclufive divorced. The physical con- sions, as apparent for the present dition is detailed at some length. time; conclusions that are likely to The entire 42 were unable to take change with farther study. The care of themselves. Thirty-three subject is so complex and enters had been condemned as petty crim- into so many different relations of inals and had been maintained in life, and so little has been done up penal institutions at a cost of over to the present, that it is impossible to write scientifically of any settled The incapacity of the entire num- facts that may not change with a

Why does alcohol act on differto over \$15,000. The sickness rate ent | persons in different ways? Why does the obsession for drink new interest in the subject and causes? Why does the drink craze tions yet to be settled. go on through long periods, slowly which have been answered.

fectly simple, but they contribute the world. nothing to the real problem. Ex- THE ACTIVE PRINCIPLE OF pert students of mental diseases and enthusiastic laymen will consuch literature.

American representative. many contributed ten, Holland, four. It would appear that many the authors, rather than adding at once to all parts of the body. much to the subject.

come on with little or no exciting brings out a great variety of ques-

Another Congress will be held or rapidly to fatal results? Why at Milan in Sept., 1913, and it is does a great variety of other causes hoped that the American represenprovoke the desire for spirits, and tatives, who in many respects what conditions are inherited from should know more of the subject one generation to another, making than any other nation in the world, it more or less susceptible? So on will contribute something of this through a list of inquiries that knowledge, and add to the growth fairly bewilder the senses, none of of the larger sentiment, that recognizes the danger from alcohol Opinions and theories are per- and its influence on the progress of

OPIUM SMOKE.

The smoke of tobacco and opium tinue to talk and dogmatize, but are topics of great significance and the real facts will not be found in largely unknown. The nicotine of tobacco is of course a very active THE NATIONAL TEMPER- poison, and there is a great deal of ANCE QUARTERLY has an ex- dispute in many circles as to its ceedingly interesting paper by Dr. physiological action and its pre-Neild on the papers read at the valence in the ordinary use of to-Congress at the Hague in 1911. bacco. The best observers con-There were 900 representatives clude that it is an exceedingly from different countries, and thirty dangerous product and when conpapers were read, only one from an centrated has a very serious action Ger- on the cell and tissue.

Cigarette smoking is supposed seven, Switzerland six and England to be the most dangerous form in which tobacco can be used for the of these papers were followed by reason that the smoke is absorbed discussions which served the pur- directly by the mucous membrane, pose of expressing the feelings of and its poisonous products carried

Recently opium smoking has This great Congress, the thir-been investigated and the very teenth in the history, indicates curious fact developed that a form

that has substantially the same effects and action on the system. The smoker inhales literally morhas its peculiar physiological action on the organism. Control experi- fusional efforts. ments show that the smoke drawn from burning opium injected into the blood of animals produces pronounced narcotism and death, and the supposition that it is owing to a crude form of morphia is verified.

babilities are that considerable new literature will be offered on this side of the opium question.

ALCOHOL AND MENTAL HEALTH.

gestive paper by Dr. Wiglesworth; but that small quantities taken ance Review. After an extremely soon become permanent and decautious presentation of the ques- velop into a serious impairment. tion whether a moderate amount of The very highest developments of alcohol is injurious, he procedes the nervous system which have with the topic in a more confident relation to the individual and his tone. It is not clear to him that a adjustment to his environment, are small amount of alcohol is always the first to be impaired by the toxic injurious, and yet many of the action of alcohol. facts he presents would seem to confirm this.

of morphia is found in the smoke weakening of the controling influence of the co-ordinating centers. This takes off the control of the lower centers, increasing their acphia, and this with other products tivity, at the same time diminishing their power, and producing con-

The theory of a duplex condition of the nerve centers, negative as regards the higher and positive as regards the lower, is found to explain this. The paralyzing influence of alcohol seems to act as a Some very interesting experi- disturber of the consciousness and ments have recently been made conception of the individual. He with opium smoking and the pro- is unable to appreciate the delicate relations of surroundings. His power of restraint over himself is diminished, and a delusion of increased strength follows. He declares that the action of alcohol is This is the title of a very sug- intermittent and transitory at first. published in the Medical Temper- repeatedly produce changes which

First it is intellectual injury. This will show itself in unusual in-He declares the deleterious effects attention to the ordinary duties of of alcohol are clearly evident in its life, as manifested by the failure disturbing influence on the higher to keep business appointments, the functional activities. The rapidity neglect of social engagements and of cerebral action following a small the like; also a want of interest in, dose of spirits is explained as the and sympathy for others, where it

truistic faculties become steadily more and more impaired, while the positions are in this condition. egotistic ones assume greater dominence.

The man becomes indifferent to business relations, is less decorous and courteous in his conduct towards ladies and others, than was his custom, and actually consents to associate with low characters this condition, of which mania, whose company he would have shunned before. His interest in his family grows less and he is apparently unconcerned about their these states are very frequently the faculties are so dull that nothing re- vessels undergo changes. utterly fails to regulate or to re- deficient. cognize the degradation into which he has fallen. During this time, his intellectual faculties may remain about the same. He may do the work common to his every day life but with little impairment and be regarded as sane by his associates and yet in other respects, he is suffering from distinct moral palsies which every indulgence even in small quantities increases. This is

would be natural to display itself. the common road out, and yet many As the disorder gains force, and al- men, supposed to be doing good work and occupying responsible

If there is hereditary entailment the degeneration is more profound. Sometimes the mental balance is more deranged and the person is more evidently disturbed, in others it remains about the same.

There are several terminals to melancholia, and paranoiac states, dementia and general paralysis are common. The degeneration wants. After a time his higher nerve cells and fibers. The blood mains but a craving for self indul- elastic power of propelling the blood gence which seems to over-power is diminished. The molecules of every other impulse. His will- the cells are ill-nourished and die power is not only weakened, but and the germ plasm generally is

> The conclusion is clear that the anesthetic property of alcohol diminishes cell nutrition, but increases toxins, which in themselves localize and become sources of danger, the direct action of which are on the highest intellectual faculties first and extending down to all the coarser operations of the brain.

PRIZE ESSAY.

can Society for the Study of Alcohol and Other Narcotics. Dr. L. D. Mason of Brooklyn, N. Y., Vice. Pres. of the society offers a prize of \$150.00 for the best essay on the following topic:

"THE BIOLOGICAL AND PHY-SIOLOGICAL RELATIONS ALCOHOL TO LIFE."

The essay must be the result of original research which shall confirm or disprove the present theories of the inherited effects of alcoholic degenerations and indicate how far the defects of parents are transmitted to the children.

Such work may be carried on in Under the auspices of The Ameri- man or animals, and the results may be illustrated by drawings or photographs and must be typewritten and sent to the office of the Secretary before July, 1913.

This offer is open to student's in all countries, and each essay should be accompanied by a motto and a scaled envelope containing the same, with the author's name and address.

A committee of award of which Dr. W. S. Hall, Prof. of Physiology in the Northwestern University, Chicago, Ill., is the chairman.

All inquiries should be addressed to Dr. T. D. Crothers, Hartfords Conn., Sec'y.

REVIEWS.

MIND AND VOICE.

Principles and Methods of Vocal the warmest commendation. Training.

By Dr. S. S. Curry, Pres. Boston School of Expression.

This is one of the new books that opens up a field of very unusual interest. The author shows the nature of voice training, and how far the mind can be made to show its power in this way, and by medium. The physics sound and the mental training requisite to bring out the voice modulations are described in such a clear vigorous way, that the reader is immensely impressed.

Dr. Curry has spent half a life time in trying to introduce voice and mind culture along lines of expression that shall be most effective in every department of life. This includes training of the body, the nervous system, the mind and the voice in its highest and best forms, and indicates a possibility beyond all the oratorical efforts of ancient times. This book is a text book of the application of great principles in the correction of instructive and helpful. innumerable faults which impair the possibility of giving correct expression to the mind by the voice.

He claims that if American nervousness could be concentrated in physical and voice culture, we should have a race of the most highly developed people that have ever been seen. This book deserves

THE PSYCHOLOGY OF INSANITY.

By Bernard Hart, M. D., London, Eng. Lecturer on Psychiatry, London, College Hosp., etc., Cambridge; University Press; New York G. P. Putnam's Sons, 1912

The author is a very practical student and in this little book confines the study to recent developments in abnormal psychology, particularly relating to insanity and the border-line cases. It is evidently a contribution of great value in giving new suggestive outlooks of the derangements that are subjects of much controversy in our modern times.

We hope the author will expand his studies into a larger volume, giving some details, which in this he merely outlines.

The book is one of those little brochures which have a peculiar value to practical men, and students in this field, and we commend it to our readers as particularly

A CLINICAL TREATISE ON INEBRIETY.

On the Etiology, symptomology, neuroses, psychoses and treatment, and its Medico-Legal Relations. By T. D. Crothers, M. D., Supt. Walnut Lodge Hospital, Hartford, Conn. Editor of the Journal of Inebriety, etc., etc.

This work issued last year of clearness and taste. Both are to first clinical study of inebriety and valuable a work. alcoholism as a neurosis and disdifferent phases of the subject, more or less prominence, but this is the first book in the English language to outline the physiological, psychological and therapoutic aspects of the drink and drug heu-

The book is divided into 23 chapters, each one preceded by a synopsis of the subject discussed, and a great variety of clinical histories are presented, illustrating the theories of the various cases.

The book may be called a textbook, which gives an outline of the general facts without going down to the details of treatment and symptoms. The reader will find a most surprising wealth of suggestions as to the possibilities of farther study and practical treatbeen presented before.

It is literally what one of the critics have asserted, "an epoch making book' in which facts are grouped that will become the starting point for farther and more exhaustive studies.

nearly 400 pages is practically the be congratulated in bringing out so

The Journal of Inebriety warmly ease. Other works have given welcomes this book and its conclusions as the consummation of nearly 40 years work and effort, particularly noted in the pages of the Journal from 1876 to the present time. The Harvey Publishing Co. of Cincinnati, will send copies of this book prepaid for \$3.00 and we may say that there is no book in the language on this subject of greater practical value. H. L. Haw-

HIMSELF.

Talks with Men Concerning Themselves.

By E. B. Lowry, M. D., and R. J. Lambert, M. D.

This is another of the famous books which Dr. E. B. Lowry has written on sex questions, and sex physiology and sex life. No author has written so clearly, and with ment, and eyery chapter groups a such exactness on these matters. variety of facts that have never In this book Dr. Lambert is associated as an author and this volume is probably one of the best that has been written, particularly as a guide and a grouping of exact knowledge, that can be understood at a glance.

Running through all these books, The author, who is so widely there is a delicate simplicity and known as a life long student of this exact use of words that leave no subject, has put facts in a very obscurity to the reader. The disreadable way, and the public here cussion of the various topics is has presented a volume of unusual scientific in the sense of containing

unknown, and are seldom ever put into popular language.

way outside.

and persons who advertise to treat all the various obscure diseases, is invaluable and will save many a wretched experience.

Other books of this author, which are equally valuable are Herself, False Modesty, Confidential Talks, and Truths, all comprising a library of most valuable information.

The publisher has issued a very attractive volume and these books should go into the homes of every family as invaluable.

SEX HYGIENE FOR THE MALE.

and What to say to the Boy. By G. Frank Lydston, M. D., Prof. of Genito-Urinary Diseases in the University of Illinois, etc., Chicago, Riverton Press, 1912.

This is a finely printed book of over three hundred pages, amply illustrated, and is written in a very graphic, pleasing way. There is no question but books of this kind are called for, books that can be put into the hands of boys, and read without morbid impressions,

a great number of facts that are and studied as a collection of facts f intense practical interest.

The author has presented a very Such a book should be in the interesting di-cussion, and while hands of every young man, and of the critic might find fault with every father who would wish to some of the divisions of the subteach his son what he must learn, ject, and the technical way in in a most imperfect, dangerous, which they are treated, he cannot but be pleased with the strong The chapter on Medical Fakirs presentation of other parts. The book is a valuable one and will do a great deal of good wherever it is read.

> We commend it most heartily. The author always writes well and has a very clear conception of the whole range of diseases in this direction as well as spirit and drug neuroses, and this book will convey a message to every reader, that will tell, in the great struggle towards the higher life.

THE POPULAR SCIENCE MONTHLY.

The Popular Science Monthly is a journal which for over half a century has been going out to an increasing number of readers, with scientific articles popularized and put in language that can be easily read and understood by everyone.

The last few issues have a more than usual number of papers that are evolutionary, papers opposed by traditions and prestige, with distinct intimations of a new world of science that is coming.

Medicine, chemistry, hygiene and psychological subjects are all treated

difficulty. The editor is very happy wants of a class of growing readers.

It is published by the Science Press, Garrison, New York, and edited by Dr. Cattell. A copy should be on the table of every oracticing physician.

THE HIBBERT JOURNAL.

The Hibbert Journal, published by Sherman, French & Co., of Boston, Mass., has come into prominence as one of the great quarterlies devoted to philosophy, reigion and theology. There is a certain judicial treatment of these subjects that is particularly attrac-

on such a broad plain that the phy-tive to the reader. The authors sician feels that it is really one of write on a very broad plane with the most valuable of the journals the spirit of science above special that will be read and not put aside. pleading, giving the reader an Some of the best medico-philo- outline view of the subject, and sophic papers have been published this to the medical man is most in this journal; papers that could attractive. He is swamped with not be obtained elsewhere without theories which weary one to discriminate, hence to have a subin his choice of topics and shows a ject discussed without drawing wise discrimination to meet the special conclusions, leaving that to the reader, is stimulating. Another feature of this quarterly is the large type and general typographic excellence. Every number contains papers that suggest new views and new ranges of thought put in an artistic, literary style that leaves a good impression. This book comes to our table with a message that appeals to every thinker, and we most heartily commend it to every student who would catch views of the great revolutions and evolutions that are gathering about us.

THE ALCOHOLIC CRIMINAL.

In criminal circles the most im- police at once, for her own protecfrequents bad houses at times. These two facts are most important clues. After a successful robbery he is almost certain to visit some fast house and drink and associate with women.

He may take a girl and go off to some far away place, but he is almost sure to boast of his skill and success, after the use of spirits. The girl or woman will find out exactly the crime he has committed. He will confide to her what he has done, with delusional egotism and boast of his success.

If he has large quantities of money with him, the girl will take this and communicate with the

portant fact for the detective is to tion and security. Whenever a know whether the culprit uses man of this kind has committed spirits to excess, and whether he robbery, detectives get in touch with all the fast houses and fast women in the neighborhood or in other cities, and this clue always reveals the presence of the criminal. It brings out into great prominence the effect of alcohol in producing egotism and credulity, confiding to others what he would not do if not using spirits.

The alcoholic criminal never escapes punishment. His brain is so weakened that he is unable to conceal the facts of his life or to exercise persistent caution and dis-The action of alcohol. cretion. destroys this and scorer or later he reveals his condition.

FIXED CONDITIONS IN LIFE.

at a certain temperature, adding and pauperism will result. certain mineral atoms, and certain results will follow.

There are fixed conditions in of life. Thus take a company of life with positive results, from children with certain atmospheres which there can be no change or and certain physical conditions, shadow of turning. In chemistry, and inebriety will follow. Change given a certain volume of water, the conditions a little and crime

There is no escape from the action of physical and psychical Thus one part of hydrogen and forces which move with unerring two parts of oxygen, under certain certainty, towards definite ends. conditions, produces water. These Knowing the conditions, inherited. obsolute laws extend to all phases traits, and the surroundings, and

alcoholism, inebriety and criminality can be predicted, with the same certainty that the courses of the planet can be marked out.

With this comes the possibility from a larger knowledge. preventing the operations of these laws by substituting other forces,

moving with equal exactness, towards a different end. Everywhere in the scientific world the doctrine of prevention by the use of intelligent laws and forces is the great new land for evolutionary growth.

STARTLING PHASE OF UNIONISM.

5,000 railway men of the Northeastern Railway System of Engof engine driver Knox, who was convicted of drunkenness while off duty. The strike was that of sympathy, in which it was asserted that the company had no right to punish the man who drinks at nome, or while not in their employ.

It was in reality a claim of inringement of personal liberty.

A somewhat startling phase of The Company assert that if Knox unionism is evident in the strike of can establish his innocence, and prove that he was not intoxicated he will be reinstated. If not they land. The cause is given as the insist on putting him down, and conviction and reduction in status rating him lower in the ranks of active workers.

In this country a strike of that kind, would discount the union men, and give the railroads additional standing with the public. Engineer Knox would drop out of all business with his company, justly and rightly.

ALCOHOL A PREDISPOSING CAUSE.

causes of disease, particularly of the mind and nervous system shows that alcohol occupies a very promnent place. Curiously enough, in cine in their efforts at reform.

Every statistical study of the view of this fact, we should expect to have attention drawn to this by the great leaders of preventive medi-

Consumption, the social evil, bad diet, bad ventilation are all detailed with great minuteness and alcohol is only causually mentioned. Public sentiment has not yet advanced to sustain the facts so well known to every physician and permit them to be pushed to the front as active and confusing causes.

In the mortality rates alcohol is very seldom mentioned, yet it is recognized as one of the most active, predisposing causes, but the time is coming when these facts will be recognized clearly and distinctly.

TEMPERANCE ANNUALS.

Temperance Annuals of unusual interest have come to our table. One, the Scottish Temperance Annual, printed by the Grand Lodge of the I. O. G. T. This resembles the World's Almanac in the variety and scope of the statistical facts concerning the alcoholic problem which it presents.

The other is the Alliance Temperance Organ, less pretentiousbut equally valuable in many ways. The subject has reached such prominence that only from handy compendiums like these, can one keep in close touch with the movements of societies.

UNSAFE USE OF MORPHINE AND COCAINE.

of Medicine and Surgery, objects to the use of morphine or cocaine, hyperdermatically in persons who are to be anesthized for operations. The reason given is, that these drugs mask the other symptoms and deceive the anaethiser, also

Dr. Todd in the Canada Journal that a degree of susceptibility varies so widely that the effect of these drugs may be very serious and in many ways complicate the purposes intended. This is a valuable suggestion, and should be recognized in the operating room.

STUDY OF ALCOHOL.

boastful remedies has forced the curers.

Much of the present activity in subject into recognition, and the the study of alcohol and the diseases trained man is obliged to take up which follow from it is due to the the subject and show the absurdity quack and pretender, who by his of some of the claims of the specific

Publisher's Announcement.

On the appearance of the first issue of the Journal of Inebriety under the present management it will be undoubtedly deemed a mark of wisdom to give our subscribers and readers an outline, at least, of what we propose to undertake.

The next issue of the Journal will appear during the latter part of May. After that issue the Journal of Inebriety will drop the form of a Quarterly and become a Bi-Monthly being issued in the months of July, September, November, January, March and May of each year.

We believe that this change will be for the best interests of the subscribers, the advertisers and the publishers.

It affords us peculiar pleasure to also announce that arrangements have been made so that hereafter our pages will present the best of the articles, either entire or in abstract, read before the English and German Societies who are working along the same lines as the Society of which this Journal is the Official Organ.

By this means our readers will have a graphic resume of all that is being done both at home and abroad to stop the ravages of Alcoholism and other drug habits.

May we not have the hearty co-operation of every one who reads these words to assist us in our endeavor to increase the circulation of our periodical so that many more may derive benefit and help from its perusal?