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Discovery by Hindu Student Shows Percentages of Chicory.

EXACT ANALYTIC METHOD

Mahesh Charan Sinha, O. A. C. Graduate Solves Chemical Problem That Has Long Been Bane of Fure Coffee Exponents.

That coffee sold to American consumers has been adulterated with chicory has "known secret" for a long time, but the adulteration was difficult of detection and credit for the discovery of an easy method to determine the exact percentage of chicory is now due to a

....................... ORIGINATES METHOD TO DETER-MINE CHICORY IN COFFEE.



recent graduate of the Oregon Agricul-tural College, Mahesh Charan Sinha, a Hindu student and a graduate of the Al-hababad University. His discovery has been halled with great enthusiasm by United States and chemists freely state coveries, Dr. David T. Day, who has that the new method will be a great help, charge of the mining experiments at to food inhoratories.

to food laboratories. Mr. Sinha advances the theory that the capacity of coffee ashes for holding hy-droscopic moisture is greater than that of chicory ashes. The percentage of moisture taken by the ashes from the air when exposed for from 15 to 24 hours varies according to the condition of weather, but the difference between the ratio of moisture absorbed by the ashes is always sufficiently great to furnish the exact data for calculating the exact perexact data for calculating the exact per-centage of adulteration. There is a dif-ference in appearence of the two ashes, coffee ash being gray, while that of chicory is brown.

No Accurate Analyses.

able established of the per cent of mo table established of the per cent of mois-ture absorbed by the two ashes. As a thorough test of this method, 12 samples were carefully prepared and submitted for analysis. Each sample was burned in a platinum dish, weighed and then exposed to the atmosphere for from 12 to 16 hours and then reweighed. From the per cent of moisture absorbed was exactly ascertained the amount of chloory present. Fast Express Runs Down Automobile at Allaire, N. J.

was exactly ascertained the amount of chicory present. Although the samples submitted to Mr. Sinha were of mixture unknown to the young student, the results obtained ex-actly agreed with their true compositions. In the opinion of A. L. Knisely, head of the chemical department in the O. A. C., in cases where the microscope shows that the adulteration in coffee is chicory, the per cent of adulteration can be easily and quickly determined by Mr. Sinha's method. For his valuable contribution Mr. Sinha was given the degree of mäs-HURLS IT HIGH IN THE AIR

method. For his valuable contribution Mr. Sinha was given the degree of mas-ter of science by the college and the president. Thomas M. Gatch, personally congratulated the young Hindu student for his remarkable achievement. All the officers and professors of the college have nothing but praise for the young student and he has many letters of con-restulation from scientists of the state. Wealthy New Yorker, With His Wife gratulation from scientists of the state. Young and modest, Mr. Sinha does not claim any credit for himself. He main-tains that the credit is due to his countains that the credit is due to his coun-trymen and that he is proud of being able to do something on behalf of his people. He expresses the greatest admi-ration for this country, where he says every one is given an opportunity. "The courtesy of all to me while I have been in this country," he said in perfect Eng-lish, "will always remain a cherished memory." -An automobile accident that cost the lives of three people and will probably result in the death of a fourth occurred this afternoon at Alaire, N. J., nine miles from here on the road to Asbury Park. The express from Freehold on the Pennsylvania Raliroad, which was 10 min-the large struck the large fouring car

nemory. Plans American College in India.

The young Hindu student came to Ore-

J. G. LAFFARAGUE. MRS. LAFFARAGUE. MRS. CHARLES J. LEERSCH. The young rinnin student camp to one gon about two years ago at the instance of the Swami Ram Society, of this city, which assisted him in his experimental work at the Oregon college. Mr. Sinha is now going to England, where he will stay for several months, continuing his researches, after which he returns to badia. Us an interview with an Oregon. Fatally injured, Charles Leersch. The automobile was crossing the tracks just as the train, running at a great rate of speed, whirled through. The engine struck the automobile squarely in the middle, hurling it high in the air, 30 feet, to the platform of the station, where it crashed down upon a baggage-truck a mass of twisted iron and wreck-India. In an Interview with an Oregon-ian reporter yesterday he expressed his intention to return to his mother country and endeavor to establish an independent truck, a mass of twisted iron and wreckage. Mr. Laffarague, who was driving when college, adopting the American system of education

WHY CAPITAL IS LACKING TO EX-

TRACT IRON FROM SAND.

Academy of Science Tells of

Experiments.

Had it not been for the wide-spread

publicity given the black sand dis-

Mr. Lanarague, who was driving when the accident occurred, was fearfully crushed by the impact of the engine against the automobile, and was buried under the wreckage. Mrs. Laffarague was also crushed, her head being partly When I go back home," he concluded. "I will find before me a field which will furnish ample scope for application of what knowledge I have acquired in this what knowledge I have acquired in this great country. I hope the people of India will be encouraged to viait the United States and see for themselves what equality of rights and liberty has done. This would help India to break down the caste system, the great obstacle in the way of reform and progress. It would also help the world, because the Hindu mind, when enabled to learn the modern sciences, may yet tap Some of the great the state of the server. sciences, may yet tap some of the great scientific problems that today perplex the minds of scientists."

pital at Spring Lake. The train was immediately stopped and backed to the crossing, several physi-clans who were aboard alighting to ren-der aid. It was quickly seen that all of the party save Mr. Leersch were dead. The automobile party was on its way from Asbury Park to New York when struck by the train Mr. Lawarance had HELD BACK BY PUBLICITY



and One Guest, Meets Instant

Death - Fourth Occupant

Is Fatally Injured.

FREEHOLD, N. J., Aug. 18 .- (Special.)

utes late, struck the large touring car of J. George Laffarague, of New York,

The dead:

Gory German

Vancouver Agent Says It Is Close Season for Grizzlles. but That All Other Kinds of Game Are Avall-

RALPH SMITH, the bloodthirsty mem-ber of a Herbesthal, Prussia, hunt charge of the mining experiments at the fair grounds, is of the opinion that much more progress would have been made in the development of the steel industry in the Northwest. Columns have been printed in the newspapers and magazines regarding the experi-ments and this Dr. Day says has dis-sipated the hidden-treasure incentive idea which leads many people on to make investments. club, who has written to almost every "Had we kept the outcome of our success secret and told only a favored few I believe capital would be at work to develop this great industry." said Dr. Day at a meeting of the Academy of Science at the City Hall iast night because it is such common knowledge people are not so apt to believe that the investment would be a profitable

ans to give us street sprinkling regulations, ordinances or by-laws (as our Canadian friends have the word) that will sprinkle the streets of Portland at any and all times of the year when the dust is flying, regardless of the calendar?

the caleadar? This is a long presimble, but I have hefore my mental vision scenes of dry, dusty. September days, when never a sprinkler, either cart or car, takes is-sue with fogs of dust that rise with every passing street car or swiftly moving auto, carriage or express wagon. Why? The September and Au-tumn has come. The street sprinkling service in this neighborhood has been above reproach all Summer (since it commenced) and I feel that we should have ordinances that will require the sprinkling of the city streets at all times of the year when the dust flies, even in January if need be, as it often

even in January if need he, as it often appears the chie. Will some of our organizations take the matter up and carry it to success? L. C. O.

BRUIN RAIDS THETIS DIVE

Tony Arnaud, the Proprietor, Resists Arrest, but Is Subdued.

Closely following on his order to keep women out of saloons, Captain Bruin went on an investigating tour

**************** PRESIDENT OF DALLAS COLLEGE



Dr. C. A. Mock

Dr. C. A. Mock, who has succeeded Rev. C. C. Poling, as president of the Dallas College, arrived in Portland yesterday, and is the guest of Dr. Bittner, on East Eighteenth street. He will occupy the pulpit of the First Evangelical Church, East Tenth and Sherman streets, this morning. Dr. Mock came from Pennsylvania a year ago, and became a member of the faculty of the Dallas College, At the resignation of Dr. Poling the trustees promptly elected Dr. Mock to the presidency. His sermon this morning will be to show that the world has outgrown creeds, as children outgrow their first clothes.

last night through the North End and with Detectives Mears and Burke raided the notorious dive, the Theils, conducted by Tony Arnaud, at Fourth and Everatt streets.

This is the fourth time within a few months that Arnaud's place was raided. It is considered by the police authorities the most notorious dive in the city, and Captain Bruin will make a decided stand to have the license of the saloon revoked.

Stationing the detectives at the



The Price is \$20.00



There seems to be considerable gues work usually when the exact per cant of the investment would be a profitable

There seems to be considerating gateswork sumally when the exact per cant of chicory is to be determined. In one instance samples exactly allike of mixed coffee and chicory were submitted to ten different.
With Mir. Sinha's method it is now possible to determine the adulteration with unvarying exactness and the entire Oregon Agricultural College takes pride in having one of its students make the valuable discovery.
In his experiments with coffee Mr. Sinha's nethod it a furnaces. But it will all come in time and some day the Pacific Coast will both structural and refined steel.
"Concentrating tables to separate is and so of the placer mines are being placed. They will soon be found at mark of coffee was very hydroscopic, while next day, it could be observed that the ash of coffee was only so in a slight degree.
Ti was then suggested that this differ-time in the paramete of comes of as he placet is the example of coffee and chicory for the determination of ush in platinum of some of licory was only so in a slight degree.
Ti was then suggested that this different.

This course wrote the Vancouver agent. "He will find here plenty of wild game and fish, including plenty of lobsters, al-though the grisply crop is protected just now by the close season." Mr. Chariton's office is almost flooded with copies of the same latter from the Prussian sportaman, who apparently had hundreds of them printed for a wide dis-tribution. As they were received by agents, they are sent to headquarters with the request for information how to proceed. If the flood of inquiries keeps up, it is likely that Mr. Chariton will is-sue a circular letter to his agents advis-ing them in the matter.

Street Sprinkling.

PORTLAND, Or., Aug. 16.--(To the Editor.)-Bearing in mind the legend in "time of peace prepare for war" slight degree. It was then suggested that this differ-ence in the properties of coffee ash and chloory ash might be made of use in de-termining the per cent of chloory pres-ent. Known mixtures of coffee and chle-ory were prepared and a comparative low cost. ter and mining smelter running in full in "time of peace prepare for war" may I make use of the columns of The Oregonian to suggest that the Initia-tive Cone Hundred, the Get Together Club, the Executive Board of the City Council or last but not least the Board of Health proceed by the proper

upstairs, where he found a number of women in a wild orgy of drink. He promptly placed the proprietor, Ar-naud, under arrest and asked him to accompany him to the station Ar naud grew insolant and resisted ar-rest. When the three men took hold of Arnaud he tried to fight his captors off, but was finally subdued and taken to the station. Here he was booked on two charges, that of keeping a house of ill repute and resisting ar-rest. He produced ball of \$200 and was released. Arnaud will appear in the Municipal Court tomorrow morn-

SUPPOSED LEPER REMOVED

Has Incurable Blood Disease, and Is Relegated to Poor Farm.

Ray Buan, the sick old Chinese, who inhabited a shack at Chapman and Main streets, and who was supposed to have leprosy, will no longer annoy the naigh-bors by his presence. He has been re-moved to quarters prepared for him at the Poor Farm, and will remain there until the end comes. City Physician Wheeler, who examined Baan, says ne is not a leper, but afflicted with incurable blood disease. The old man will be made as comfortable as possible and will be given medicine to relieve his suffering as given medicine to reliave his suffering as much as possible.

BODY FOUND IN HIS HOME

Matthews Huntley Had Evidently Been Slain by Robbers.

SAN DIEGO, Aug. 18.—The dead body of Matthews Hunlay, with his throat out and bullet wounds in his head and heart, was found at his realdence on Fourteenth street early this evening. The ghasily discovery was made by his son-in-law, Rev. Stephen Millin. That rob-bery was the motive is inferred from the fact that Huntley's watch was missing and his money gone. It is presumed that the crime was committed a day or two ago.

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No misleading statements or deceptive propositions to the afflicted. An honest doctor of recognized ability does not resort to such methods. I guarantee a complete, safe and lasting cure in the quickest possible time, at the lowest cost possible for honest, skillful and successful treatment. I cure Catarrh, Asthma, Lung, Throat, Rheumatism, Nervousness, Stomach, Liver, Kidney, Female Troubles and all private diseases. My remedies are composed of powerful Oriental roots, herbs, buds, vegetables and barks, that are entirely unknown (many of them) to medical science in this country.

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The C. Gee Wo Chinese Medicine Company 1621/2 FIRST STREET, CORNER MORRISON, PORTLAND, OREGON. Please mention this paper.

Recent Primary Election Was a Sweeping Victory for the Republican Boss SAN FRANCISCO, Aug. 15.—(Special correspondence.)—The primary electron of yestarday was a complete tri-numph for abe Rueef. The local boas is the polls with solid from the polls is polled to the Republicans realized the polls with solid from the polls with solid from the polls with solid from the polls and the polls with solid from the polls. The poll the polls and the polls with solid from the polls and the polls and

city. The methods by which the boss brought about this result are in keep-ing with some of his practices in for-mer campaigns. Ruse gained his tre-mendous victory by colonizing the hurned district. The helpless condition of the city offered abundant oppor-tunity for frand, and it was abundant. Iy seised. In fact, the election was more of a colonizing than a voting con-test. Rusef out-colonized his rivals; therefore, the Rusef ticket won. In the downtown districts, where usually the heaviest vote is polled, there is little at the present time but

Abe Ruef Tightens His Grip on Bay City

lists. He caught the regular Demo-cratic bosses off guard. As far as can be discorned, Ruef has entered the Democratic fight with but one object, and that the overthrow of Superior Index Lawior. It is this shear of the Judge Lawlor. It is this phase of the situation which has attracted the most widespread attention.

The series of a coloritating that a voiting con-test. Ruef out-colorizing that a voiting con-test. Ruef ticket won. In the downtown districts, where usually the heaviest vote is polled, three of Ruef's closest henchmen, Wy-man, Staffans and Rebstock, were con-victed of ballot-box stuffing. They were tried before Judge Lawlor and sentenced by him to prison terms-tight to save the three men, but Law-lor is a Judge of the highest ideals, and refused to treat with the city boas. Thugs, water-front loafers and muni-th box staffs. From one heuse 47 registered freed from 123 Hawthorne street is a tent. It is claimed for him that he controls fight the success in this, an effort will be made section. Over a score of men regis-tered from 123 Hawthorne street is a tent. It is to the burned street is a tent. It is the there is in the present to the success in this, an effort will be made to the form to retail the success in this, an effort will be made section. Over a score of men regis-tered from 123 Hawthorne street is a tent. It is the term commander to persuade Law-tere from 123 Hawthorne street is a tent. It is the term is only as to the man to

to choice.

. . . In the state campaign Ruef and Her-rin have clasped hands. It is understood that Herrin controls the Los Angeles del-egation. This makes the combined strength of the united bosses, 158. Three theories, each deserving of con-

ago.

Surplus and Undivided Profits.\$677,448.52

CAPITAL .

AMERICAN GUARANTY COMPANY

OF CHICAGO. ESTABLISHED 1892. FREDERICK M. STEELE. President. CHARLES L. FUREY, Vice-President. LEWIS W. PITCHER. Secretary. JAMES L. BIGELOW, Treasurer.

fore the officers of the corporation ready for execution. Fourth-Attends to all the details of an issue of bonds, relieving the officers of the annoyance innidenial thereto. Fifth-Furnishes engraved or lifno-graphed certificates of stock bearing proper indorsement of guaranty and ready for issuance. Bith-Prepares and submits the form of necessary motions and resolutions to be passed by the stockholders and di-rectors and otherwise supervises all work in any guarant effecting the legality of the issuance of the securities. Correspondence invited. Interviews so-lucited.

General Offices, 171 LaBalla Street, Chicago

Surplus and Undivided Profits.\$677,448.52 Assumes Four Classes of Corporate Obligations: Ist-The payment of the principal of bonds. M-The payment of dividends on re-deemable proferred stock. Sd-The redemption of corporate stock. Sd-The redemption of corporate stock. The redemption of corporate stock. The payment of dividends on re-deemable proferred stock. It also performs the following services for its clients: First-Secures the services of a rebu-table trust company to act as trustee for the bondholders and to certify to the securices of the bond. Becond-Propares the necessary deed of trust in conformity with the require-ments of the trustee. Third-Has the bonds and coupons sh-graved or llihographed, laying sime be-fore the officiers of the corporation ready to execution.

Ucited