

The Cause in the East.

INDIANA.

J. M. Canfield closed a meeting at Brownsburg, which continued over two Lord's days, was largely attended, and resulted in 29 additions—24 by confession and baptism, otherwise five.

W. B. Lowe held a meeting at Etna Green, resulting in 10 additions to the church—five by baptism.

ILLINOIS.

D. Pat Henderson, in a meeting at Concord, Morgan county, had five immersions.

M. M. Goode baptized three at Petersburg, one at Liter, one at Antioch, and one at Cantrall.

A. Martin has received three additions to the church at Centralia recently.

The church once divided in Litchfield, is now happily united. Bro. L. Sweet writes concerning the reunion: "Bro. A. W. Avery came here during the month of August, and after preaching several times for both congregations a kindly and Christian spirit was fostered, and the result was, the two bodies met in the church, submitted a proposition for uniting, which was voted upon and unanimously adopted."

MISSOURI.

Bros. Meng and Childers held a few days meeting at Mt. Tabor, Callaway county, which resulted in six accessions—three by immersion.

M. McFarland has had five additions at Index, Cass county, in the last few months.

M. M. Davis closed a meeting of a few days with Lone Elm church, Cooper county, with three additions. There are a band of good brethren here.

Three additions by immersion at Frankfort, the last day of September, under the preaching of Bro. Corwine.

T. J. Williamson reports 15 additions in a meeting from Monday until Saturday night, at New Castle, Gentry county. Bro. Oxford assisted here. After resting two weeks, he held a meeting at Pleasant Hill church, in Caldwell county, which resulted in 25 additions to the church. The Pleasant Hill church have now over one hundred members, a good new house, and out of debt.

J. W. Monser, of Warrensburg, held a series of meetings continuing twelve days at Christian Union, Saline county. Immediate result: seventeen accessions to the church.

L. D. Cook held a meeting with the congregation at Shell Grove, Nodaway county, lasting sixteen days, and resulting in 53 additions; 39 by baptism.

Relation of Oil to Power.

The function of an oil when used to lubricate is to lessen friction, and the more perfectly that it is done the more thoroughly is its purpose accomplished. Resistance to motion by surfaces in contact is modified, firstly by the nature of those surfaces, secondly by their area, and lastly by the weight or force imposed upon them. Exactly why oil should be a lubricant any more than water or a mucilaginous or emulsive body has not as yet been determined, and what its molecular condition has to do with it is not yet definitely ascertained. Oil applied between two surfaces or bearings, fills the superficial pores of the metal and forms a film between the surfaces and thus keeps them apart, and the particles of oil are made to move amongst themselves and keep these surfaces from absolute contact.

Too little attention is paid by users of machinery to adapting the quality of the oil to the work to be done; for instance the cotton or woolen mill which uses lard or so-called "heavy" oil on their engine and spindles would find the latter absorbing or destroying much of the power of the former, simply in overcoming the resistance due to the viscosity or "heaviness" of the

oil itself, for we must remember that the absolute resistance of the spindle is but slight, and even a slight adhesiveness due to the oil itself, would almost equal the normal resistance of the unoled spindle.

Then again, the tendency to gum or thicken of the oil in question adds to its undesirability, and when we see this resistance multiplied by the thousands of spindles at work we can imagine the drain of power simply in overcoming the resistance of the oil. Paraffine oils and other refined derivatives obtained from petroleum are peculiarly adapted for all this work—heavy or light—for by a judicious admixture of them with animal oils for the purpose intended an oil may be obtained suitable for any work. In this class of oils the tendency to gum or oxydize is checked, as the petroleum holds in solution the other oils, and being non-evaporative and non-oxidizing itself, it imparts those properties to the oils in combination.

The skillful manufacturer can now produce an oil which will run a watch or clock, or sewing machine, and all the way up to the ponderous journal exerting tons of weight on its bearing, but we are yet to see whether the wants of an age demanding the most ponderous machinery and rapid motion will produce an oil with which to lubricate it. Fortunately in this country we are not called upon to devise a substance to lubricate the bearings of huge vessels of war as our English cousins have to do. The time may come when Yankee ingenuity and skill may be put to the test to produce a vessel and armament which will dwarf their new iron-clad, the "Shah."

The crank bearings of brass and white metal of this vessel became so heated as to "melt and run" from the enormous strain imposed upon them. By using a phosphor bronze instead of the former metal this objection was somewhat overcome, but with the development of her 7,500-horse power it was found that while the phosphor bronze bearings became heated and cut they did not fuse and run as with the former metal. Now the British admiralty want an oil to prevent this excessive heating. Who can supply it?—*American Manufacturer.*

The Graves of the Great in Paris.

The more interesting sights of Paris are associated with its older history, and with the taste and luxury of its present period. Every person who visits Paris repairs presently to Les Invalides, to see the tomb of Napoleon Bonaparte. It is a structure that would inspire awe even if it were not associated with that glittering name and that grand, terrible, pathetic memory. The gloom of the crypt in which it is sunk, the sepulchral character of the mysterious emblematic figures which surround it—"Staring right on with calm eternal eyes," the grandeur of the dome which rises above it; and its own vast size and deathly shape—all these characteristics unite to make it a most impressive object, apart from the observer's knowledge of the thrilling fact that in this great, red sand-stone coffin rests at last, after the stormiest of all human lives, the ashes of the most vital man of action that has lived in modern times. I was even more deeply impressed and afflicted; though, by the sight of the tombs of Voltaire and Rousseau in the vaults beneath the Pantheon. No device more opposite or more startling could have been adopted than that which confronts you on the front of Rousseau's tomb. The door is just ajar, and out of it issues arm and hand grasping a lighted torch. It was almost as if the dead had spoken with a living voice, to see that fateful symbol of a power of thought and passion which never can die—while human hearts remain human. There is a fine statue of Voltaire in the vault that

holds his tomb. These mausoleums are said to be commemorative, merely—the bodies of Voltaire and Rousseau, having been either destroyed with quick-lime or stolen away from their place of sepulcher. Other tombs of departed greatness I found in Pere la Chaise, Molière and La Fontaine rest side by side. Racine is a neighbor of them. Talma, Auber, Rossini, De Musset, Desclée and many other illustrious names may here be read in the letters of death. I came upon Rachel's tomb in the Jewish quarter of the cemetery. It is a tall, narrow stone structure with a grated door, on which the name of Rachel—and nothing else—is "graven in black letters. Looking in through the grating I saw a shelf, on which were vases and flowers, and beneath it were fourteen immortal wreaths. A few cards, left by mourners of the dead, or by pilgrims to this solemn shrine of genius and illustrious renown, were upon the floor. I ventured to add my own name humbly and reverently to those who thus gave respect to the memory of a great woman, and I gathered a few leaves from the shrubbery that grows in front of her grave.—*William Winter's, Cor. N. Y. Tribune.*

A pathetic picture of the changes that sometimes come over people is given in a sketch by a newspaper correspondent describing a recent visit to Jefferson Davis. Here is an extract:

Mr. Davis is now very feeble and can not get in and out of his carriage without help. One of his old servants who now owns his former master's plantation, is the largest cotton planter in that region. It is said that he employs a thousand hands. His former master is always welcomed when he visits the old home, and the former servant does his best to make him feel at home. He sets a nice table, and putting on a clean white apron waits upon him as in former times. He also supplies him with money if he needs it. The present employment of the ex-Confederate Chief is settling up his brother's estate, which is next to the one he formerly owned; and which it is thought will eventually be purchased by the ex-slave.—*Christian Messenger (Texas).*

The longer we neglect writing to an absent friend, the less mind we have to set about it. So, the more we neglect private prayer and closet communion with God, the more shy we grow in our approaches to him. Nothing breeds a greater strangeness between the soul and God than the restraining of prayer before him. And nothing would renew the blessed intimacy, if God himself, the neglected party did not, as it were, send us a letter of exhortation from heaven, and sweetly chide us for our negligence. Then we melt, then we kindle; and the blissful intercourse gradually opens as usual.—*Toplady*

A mother, with her three children, was clinging to the wreck of the steamer *Bohemia*, when the mother said she must let go and be drowned. Her little girl replied, "Hold on a little longer, mother. Jesus walked on the water and saved Peter, and perhaps he will save us." The little girl's words so strengthened her mother that she held on a few moments more, when a boat was sent to their rescue.

"Pray, sir," said Lady Wallace to David Hume, "I am often asked what age I am; what answer should I make?" Mr. Hume, immediately guessing her ladyship's meaning, said: "Madam, when you are asked that question again, answer, that you are not yet come to the years of discretion."

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