<table>
<thead>
<tr>
<th>Title:</th>
<th>Front Matter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Issue Date:</td>
<td>Nov-1923</td>
</tr>
<tr>
<td>Publisher:</td>
<td>Ohio State University, College of Engineering</td>
</tr>
<tr>
<td>Citation:</td>
<td>Ohio State Engineer, vol. 7, no. 1 (November, 1923), 1-4.</td>
</tr>
<tr>
<td>URI:</td>
<td><a href="http://hdl.handle.net/1811/32848">http://hdl.handle.net/1811/32848</a></td>
</tr>
<tr>
<td>Appears in Collections:</td>
<td><a href="http://hdl.handle.net/1811/32848">Ohio State Engineer: Volume 7, no. 1 (November, 1923)</a></td>
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</tbody>
</table>
OHIO STATE ENGINEER

ARCHITECTURAL
CERAMIC CHEMICAL
ELECTRICAL

MELBOURNE SUBURBAN TERMINAL, AUSTRALIA

NOVEMBER, 1923

Vol. VII

OHIO STATE UNIVERSITY

No. 1

Member of the Engineering College Magazines Associated
HERE the architects envisioned a picture, saw the modern office building in terms of the great art of the Middle Ages—and the result is a demonstration that the utilitarian structure, the modern office building of commerce may be as picturesque as it is practical. Vision, imagination, courage and practical ingenuity in stylistic adaptation have enabled the architects of this country to astonish the world with their achievements of today and their promise of tomorrow.

Certainly modern invention—modern engineering skill and organization, will prove more than equal to the demands of the architecture of the future.
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The Meaning of
ARMCO Ingot Iron

Each word in this well known name has its special significance to the user of iron and its products

ARMCO

ARMCO is the family name of the products of the American Rolling Mill Company.

It stands for research and quality.

—for analysis and purity that banish chance from process and product.

—for special irons and steels for special uses, in order to increase resistance to corrosion as well as wear.

—for conservation and true economy in the use of ferrous metals.

Ingot Iron

Ingot Iron, a molten metal poured into moulds, is the best known Armco product.

It stands alone, a distinctly different material, the first and only commercially pure iron.

It differs from wrought iron, for it is uniform in quality, purer, and contains no weakening slag inclusions.

It is purer and more uniform than steel, has a smoother, closer texture and is more free from occluded gases.

It is especially adapted for use where corrosion must be met, is ideal for welding processes, for conducting electricity, and as a base for enamel or spelter.

THE AMERICAN ROLLING MILL CO.
Middletown, Ohio
THE BATTLE OF "PAINTED POLE"

Written for the Rig and Reel

By WILL FERRELL

Author of Poems in Oil

HAVE YOU heard the story of Jack O'Rear,
The Cumberland pipe-line engineer?
It deals with Kentucky—a hidden "still"
Deep in the heart of a guarded hill.
The word went forth from the Jarvis crowd
That no "trespassin" would be allowed.
They meant it, too, and their aim was true
And, once fired up on their hellish brew,
They knew no limit of blood nor pain
To him who ventured their dark domain.

Just one way out, so the blue print said—
Over the hill and straight ahead,
Else through the flood of the yellow tide
Of a river, treacherous, deep and wide.
So Jack O'Rear with his blanket roll,
His high school helper and painted pole,
Tackled the job and he knew his "stuff,"
For he came from a land where the folks are rough,
And he started out on the mountain grade,
Calm and determined and unafraid.

"Ping!" Like the hiss of an angry cat,
A bullet tore through his khaki hat.
The high school helper fled in fear
And left the battle to Jack O'Rear,
Who, bending low to spoil the aim
Of the hidden gun in its ghastly game,
Seized the pole with its red and white
And charged like a Trojan up the height,
As the eerie whine of a leaden pill,
Slithered and echoed around the hill.

He came full head on a Jarvis son,
Clipping the barrel of his empty gun.
But Jack was quick as a cat is quick,
And battered him down with his painted stick.
Then on to the next in his headlong wrath,
He met the chief in the mooted path—
The giant bulk of the mountaineer,
Versus the mettle of Jack O'Rear;
Beef and power and clumsy might,
Versus the clip of a well-trained right.

They are telling it yet in the pipe-line camps,
Of the fallen chief and his blackened "lamps,"
Limping his way through the valley town,
Beaten and cowed, as the sun went down;
And close on his heels, with his blood-smeared face,
Striving to quicken the big man's pace,
Followed O'Rear, with his blanket roll,
His old sextant and his painted pole,
Straight to the office of Justice Gray,
To draw up terms of the right-of-way.

Kentucky is tame this latter day.
The moonshine merchant has gone to stay.
The old def of a rifle shot
Has vanished away with things forgot.
Pipe lines cut through the tangled vales
And Progress treads on the storm-worn trails.
Progress of OIL, with its iron will,
Backed by valor and brawn and skill,
By men who conquer—who laugh at fear—
Men of the courage of Jack O'Rear.
You know that there is absolutely no question as to whether or not any type of bearing wears. They all must wear, of course, because they move. The point is merely whether the results of wear, after a time, will have to be tolerated, or whether all those effects can be obviated, by such a simple adjustment as Timken Tapered Roller Bearings provide.

To adjust a Timken bearing it is necessary merely to move the tapered cone carrying the rollers, further into the tapered cup, upon the inner surface of which the rollers bear.

This *Timken Taper* is the basic principle of anti-friction bearing adjustability—
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That is why an overwhelming majority of all automotive manufacturers and an ever-increasing number of machine-tool and appliance makers are users of Timkens.

Timkens can help you greatly some day in designing, selecting, or being responsible for mechanical equipment.

The Timken Roller Bearing Co
CANTON, OHIO

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