

Continuing Series in the *Journal*

Descriptive list of contents in each issue

Updated April 1, 2025

“Steel” by Dick Buchan.

Using the Indiana Harbor Works circa 1960 as the example, Buchan explains via text and diagrams the external and internal car movements at the plant. Commodities arrive at the plant while finished products are hauled off to purchasers. In-plant moves of hot metal, slag and scrap are also covered in detail.

Issue	Part	Contents
3-1	1	Car Movements and Rolling Stock
3-2	2	Yard Operations
4-1	3	Scrap Yard, Bar Mill and Seamless Mill Switching
4-2	4	Blast Furnace High Lines and Switching
4-3	5	Hot Metal Movements
4-4	6	Hot Ingots to Final Products

This series has concluded.

“Nucor Model Series” by Phillip Burnside and Steven Meyer

Nucor’s Crawfordsville, Indiana, mini-mill is reduced to a sixteen-foot-long HO-scale model. Burnside, with assistance from others on the team, describes every detail of this monumental undertaking including design, construction and operation.

Issue	Part	Contents
5-2	1	Nucor Corporation and the SMMSIG: An Alliance for Action
5-3	2	Overview of “New Steel”
5-4	3	Identification of Equipment
6-3	4	Description of Equipment

This series has concluded.

“Build a 24-wheel Bottle Car” by Doug Geiger

Issue	Part	Contents
5-3	1	Firecat Designs kit
6-1	2	Firecat Designs kit
6-2	3	Weathering

This series has concluded.

“Steel Layout – B&LE and Union Railroads” by Scott Woods

It would be difficult to find a layout that is more prototypically-oriented than this HO-scale masterpiece. Woods faithfully recreates steel locations along the B&LE, starting at Conneaut and continuing south to Pittsburgh. The Union Railroad provides local service to steel facilities in the Mon Valley.

Issue	Part	Contents
6-1	1	Introduction and Overview
6-2	2	Operations at the Clairton Coke Plant
6-3	3	Operations at the Duquesne Docks
6-4	4	Operations at the Duquesne Yard

This series has concluded.

“Researching the Mills” by Steven Meyer

Modelers need information to build accurate steel models and operate their layouts in a prototypical manner. Meyer shows us how to navigate on-line data repositories to extract meaningful steel information. Technical explanations and tables illustrate various facets of steel making.

Issue	Part	Contents
3-2	1	Historic American Buildings Survey / Historic American Engineering Record
4-1	2	Digital Libraries
4-2	3	Trade Journals
4-3	4	Iron Ore Transport and Usage
4-4	5	Iron Ore Movements from Dock to Mill: Domestic Commerce 1900-1950
5-1	6	Extending the Domestic Ore Supply: Taconite Usage 1950-1980
5-2	7	Imported Ore Sources for Bethlehem Steel Plants
5-3	8	The Cars that Hauled Imported Ore
5-4	9	Iron Ore and Taconite Transportation via All-Rail Routings
6-1	10	Connellsville Coke: Change Agent of the Iron Industry
6-2	11	Converting Coal into Coke – The Beehive Oven
6-3	12	Mechanization Bolsters the Coke Industry
6-4	13	By-Product Ovens and the Clairton Coke Works
7-1	14	The Companies, Railroads, and Cars that Delivered Coke
7-2	15	Duquesne Steel Works – The Perfect Prototype
7-3	16	The Fabulous Pettit Mural
7-4	17	The Duquesne Revolution – Part 1
8-1	18	The Duquesne Revolution – Part 2
8-2	19	The Monongahela River Line
8-3	20	The Duquesne Steel Model – An Authentic Recreation
9-1	21	Using the Prototype to Size the Model
9-2	22	Establishing the Plant Process Flow

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10-1	23	Rationalizing the Open-Hearth Design
10-4	24	Hot-Rolled Metal – The Business of Billets
11-2	25	Duquesne Steel Takes Shape

This series is on-going.

“The Transportation of Taconite” by Phillip Burnside

Overview and description of a model: SS Arthur M. Anderson and other equipment used in the handling and transportation of taconite

Issue	Part	Contents
8-1	1	The Ore Boat
8-2	2	Ore Boat Details
	3	

This series is on-going.

“Nucor Steel Marian”

Photographs from the tour during the 2018 Meet in Kent, Ohio, of the Nucor facility in Marian, Ohio. Released as approved.

Issue	Part	Contents
8-2	1	The Scrap Yard (3 pages also shown in 10-2)
	2	
	3	

This series is on-going.

“From the Steel Library” by Doug Geiger

Book reviews

Issue	Part	Contents
7-4	1	Inside CF& I Steel Plant
8-1	2	Ghost Rails XVII; Manufacturers’ Catalog Archive
11-2	3	Bethlehem Steel; Kaiser Steel of Fontana

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“Modeling the BHP Steelworks” by Garry Glazebrook

Issue	Part	Contents
8-4	1	Modeling the BHP Steelworks, Part 1: Prototype
9-1	2	Designing and Building the Model
9-4	3	Operations

This series is expected to end at Part 3, but may be updated.

Hot Metal Car History: Patents Throughout the Years” by John Turek

Issue	Part	Contents
9-1	1	1882 through 1922
9-2	2	1917 through 2017

This series has concluded.

“The Ahlbrand Collection” Photos and materials only shared by Matt Ahlbrand

Issue	Group	Contents
9-2	One	Mill trucks
9-3	Two	Foundry Ladle Movers
9-4	Three	Coil Handlers
10-2	Four	Scrap Bucket Mill Trucks
12-2	Five	Small Steel Chunk Handlers

This series is on-going until exhausted.

“Reichard Industries” Photos from Reichard Industries and various contributors

Issue	Section	Contents
9-4	One	Ladles
10-2	Two	Scrap Buckets
10-3	Three	Bottle Cars
12-1	Four	Blast Furnace

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“Bill Wolf’s Layout” Photos from Bill, Jr. and his wife Katherine

Issue	Area	Contents
10-4	One	Rolling Mill
11-1	Two	Blast Furnace
11-3	Three	Coke Plant