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# A Guide to Teaching Materials for Industrial Arts

Russell Blowers  
*Western Kentucky University*

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Blowers,  
Russell N.

1949



# 6800

A GUIDE TO TEACHING MATERIALS  
FOR INDUSTRIAL ARTS

BY

RUSSELL N. BLOWERS

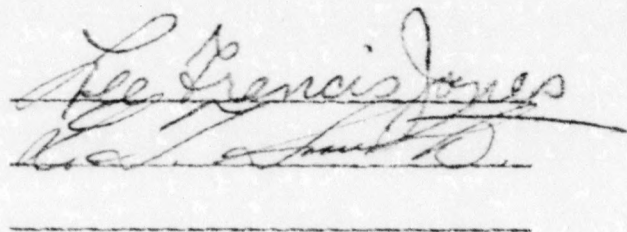
A THESIS  
SUBMITTED IN PARTIAL FULFILLMENT  
OF THE REQUIREMENTS FOR THE DEGREE OF  
MASTER OF ARTS

WESTERN KENTUCKY STATE COLLEGE

JULY, 1949

Approved:-

Major Professor and  
Department of Education  
Minor Professor  
Graduate Committee

  
\_\_\_\_\_

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To Dr. Lee Francis Jones, Professor of Education, for his helpful aid and guidance, and

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## CONTENTS

PREFACE

CHAPTER

PAGE

I	INTRODUCTION: - What prompted the study - Statement of the problem involved - Scope of the problem - Sources of data - Method of investigation - Review of similar studies.	1
II	AUTOMOTIVE MECHANICS	
	Books	5
	Booklets	6
	Bulletins	6
	Catalogues	7
	Charts	8
	Films	8
	Forms	10
	Manuals	10
	Publications	11
	Slidefilms	11
III	CERAMICS	
	Handbooks	13
	Pamphlets	13
	Films	13
	Folders	13
IV	DRAFTING	
	Books	14
	Booklets	14
	Bulletins	14
	Catalogues	14

CHAPTER		PAGE
	Charts	15
	Notebooks	16
	Films	16
	Manuals	17
	Publications	17
V	ELECTRICITY	
	Books	18
	Booklets	18
	Bulletins	21
	Catalogues	21
	Charts	21
	Data Sheets	22
	Films	23
	Folders	28
	Guide	28
	Handbooks	28
	Instruction Sheets	29
	Manuals	29
	Publications	29
	Slidefilms	30
VI	MACHINE SHOP	
	Aids	34
	Blueprints	34
	Books	34
	Booklets	35
	Bulletins	37
	Catalogues	39



CHAPTER		PAGE
	Charts	41
	Circulars	42
	Data sheets	42
	Drawings	42
	Films	42
	Folders	52
	Handbooks	52
	Instruction sheets	53
	Manuals	54
	Problems	55
	Price sheets	55
	Project sheets	55
	Publications	55
	Slidefilms	56
VII	METAL WORK	
	Books	58
	Booklets	58
	Bulletins	62
	Catalogues	64
	Charts	66
	Circulars	68
	Films	68
	Folders	74
	Handbooks	75
	Instruction sheets	75
	Leaflets	76

CHAPTER		PAGE
	Manuals	76
	Pamphlets	77
	Publications	77
	Slidefilms	77
	Treatise	78
VIII	PLASTICS	
	Booklets	79
	Charts	80
	Data sheets	80
	Films	81
	Folders	82
	Instruction sheets	82
	Plans	82
	Publications	83
IX	PRINTING	
	Booklets	84
	Films	84
	Leaflets	84
	Publications	84
X	WELDING	
	Books	85
	Booklets	85
	Charts	85
	Films	86
	Folders	88
	Manuals	88
	Slidefilms	89

## XI WOODWORK

Articles	91
Blueprints	91
Books	91
Booklets	94
Bulletins	98
Catalogues	103
Charts	105
Circulars	107
Discussions	108
Films	108
Folders	112
Handbooks	113
Instruction sheets	114
Leaflets	115
Manuals	116
Notes	117
Outlines	117
Pamphlets	117
Patterns	118
Plans	122
Posters	124
Publications	124
Reports	129
Slidefilms	129
Technical notes	130
Work sheets	133



CHAPTER		PAGE
XII	CRAFTS	
	Archery	134
	Aviation	134
	Foundry	135
	Lapidary	135
	Leather	135
	Plumbing	136
	Reedcraft	136
	Ship modeling	136
	Silk screen	136
	Soap sculpture	136
XIII	SUMMARY AND CONCLUSION	137
	Bibliography	139
	Appendix A	140
	Appendix B	141

CHARTS

CHART

PAGE

1 Tabulated Growth of Educational Departments in  
Industry

138



CHAPTER I  
INTRODUCTION

The purpose of this study has been well recognized by the writer. It is the desire of the writer to clarify these purposes to the reader. Shop teachers have long recognized the fact that educational materials are available for the asking, or at a small fee from various manufacturers, jobbers, and agencies of school shop supplies and equipment. This material in most cases can be secured by the teacher simply by writing a letter on school stationery to the concern involved. However, the difficulty in most cases is that the teachers do not know where the material can be secured, or they do not have access to listings of such materials. Knowing this to be true through several years of teaching experience, the writer hopes to make available a compiled listing to the industrial arts teachers which will meet this problem.

Through research in the field of industry it has been found that a large amount of material such as films, catalogues, books, booklets, pamphlets, charts, instruction sheets, job sheets, etc. which can be secured as educational aids are available to the teacher.

Teaching aids are published by industry for the specific purpose of advertising their particular product to the public. This objective of industry can very well be obtained by industry in cooperation with the schools of the nation. It is also of great benefit to the schools. Thus industry through the school is contributing to community growth through the advertising of their

products as educational materials.

#### What Prompted the Study

This study, "A Guide to Teaching Materials for Industrial Arts," was prompted by the fact that the writer is concerned with teaching aids available to the shop teacher in the field. Several years teaching has brought the writer face to face with the problem of supplementary teaching materials. Knowing that complete listings of teaching aids for the teacher are not available, the writer determined to make available such a listing which would be most beneficial to the shop teachers.

#### Statement of the Problem Involved

The problem is fourfold:

1. To catalogue industrial arts teaching aids.
2. To determine the extent of the educational departments in the industrial firms.
3. To determine the free and low cost teaching aids made available for the industrial arts teacher.
4. To educate the teacher and the pupil as to the materials available and thus educate them to better buying.

#### Scope of the Problem

This study involves the leading manufacturers, dealers, and agencies of industrial arts supplies and equipment which the author could locate. Without a doubt some have been overlooked



for the writer does not surmise that he knows all such agencies. Constant changes are occurring in the industrial field which makes a complete study impossible.

#### Sources of Data

The information in this study was obtained by means of a letter mailed direct to jobbers,<sup>1</sup> manufacturers, and other agencies. Replies were tabulated as they came in.

#### Method of Investigation

Realizing the wide scope of the problem and the time limit, the writer attempted the organization of the study in the following manner:

1. All listings of manufacturers, jobbers, and agencies of school shop equipment and supplies were secured and compiled.
2. This list was flexible and from time to time additional addresses were added.
3. Letters were sent to each address on school stationery along with a self-addressed envelope.<sup>2</sup>

The objective was to secure a list of teaching aids available. As replies were received certain information was recorded on index cards and filed alphabetically according to the type of aid available and as to the firm. The letters received from firms were also filed alphabetically. Numerous letters of correspondence were exchanged with many firms during a period of three

---

<sup>1</sup>Names of the cooperative firms appear in the Appendix B.

<sup>2</sup>A copy of the letter mailed to the field appears in the Appendix A.

years. It is the writer's opinion that this is probably the most recent, up-to-date listing available for teaching aids in the field of industrial arts.

#### Review of Similar Studies

One study of a similar nature was located which investigated teaching aids for metal-working classes.<sup>3</sup>

Mr. Gunderson's study, "An Annotated and Evaluated List of Industrial Teaching Aids for Metal-Working Classes," deals only with one phase of the industrial arts field, metalwork. Mr. Gunderson's approach was somewhat the same as mine in that he secured his material in the same manner and tabulated results on index cards.

Other comparable research studies may be listed as follows:

Educational Film Catalogue, H.W. Wilson Company, New York City, 1939, 332 pages.

Groneman, Chris H. Teaching Materials for Industrial Education, Industrial Arts and Vocational Education, Volume 28, No.7, 272-278 pp., September 1939.

Hogan, Howard K. A Bibliography of Textbooks and Trade List in the Field of Machine Shop Practice and Related Subjects. State of West Virginia, Department of Education, Vocational Division Trade and Industrial Teacher Filming, February 14, 1938, 16 pp.

Kitson, Harry Dexter and Lingerfelter, Mary Rebecca, Vocational Guidance Through the Library, American Library Association, Chicago, Illinois, 1936, 36 pp.

Miller, Bruce, Sources of Free and Inexpensive Teaching Aids. Mimeographed. Bruce Miller, Principal Ontario Junior High School, Ontario, California, 1939, 77 pp.

<sup>3</sup>

Harry Gunderson, An Annotated and Evaluated List of Industrial Teaching Aids for Metal - Working Classes, Master of Arts thesis, Indiana University, Bloomington, Indiana, 1940.



CHAPTER II  
AUTOMOTIVE MECHANICS

Books.-

<u>Keystone Reference Book.</u> The use and care of cutting tools.	Keystone Reamer and Tool Company <sup>1</sup>
<u>How to Repair Valve Seat Cracks.</u> A new mechanical method of valve repair. Copyrighted 1946.	Kerling and Company
<u>How to Repair and Outside Freeze Crack,</u> excellently illustrates repair with good explanations.	" " "
<u>Portable Grinding, No. 1328.</u>	Norton Company
<u>Spark Folder, No. 1742.</u>	" "
<u>Setting-Up Metal Polishing Wheels and Belts, No. 1340.</u>	" "
<u>The ABC of O.D. Grinding, No. 2006.</u>	" "
<u>Mounted Wheels and Mounted Points, No. 43.</u>	" "
<u>A Primer on Grinding Wheel Safety, No. 474.</u>	" "
<u>From the Far Corners of the Earth, No. 506.</u>	" "
<u>Lessons in Grinding, No. 1716.</u>	" "
<u>The Motor Trucks and Bus Driver's Handbook.</u>	Scovill Manufacturing Company
<u>Safety Instructions for Cranes, Industrial Trucks, Elevators and Pan Pullers.</u>	" " "
<u>Do It with a Puller, Form SS3S-2<math>\frac{1}{2}</math>M.</u>	Snap-On Tools Corporation
<u>Snap-On Puller Questionnaires, Form SS4S-5M.</u>	" " " "
<u>Snap-On Boxocket Questionnaires, Form S-105 (KS).</u>	" " " "
<u>Selling Points of the Blue-Point</u>	" " " "

<sup>1</sup> Addresses of companies Appendix B



<u>Boxocket, Form S-104 (KS).</u>	Snap-On Tools Corporation
<u>Snap-On Vacuum Grip Pliers Questionnaires, Form S-107 (KS).</u>	" " " "
<u>Selling Points of Vacuum Grip Pliers, Form S-108 (KS).</u>	" " " "
<u>Snap-On Punches and Chisels Questionnaires, Form S-107 (S).</u>	" " " "
<u>Selling Points of the Blue Point Punches and Chisels, Form S-106.</u>	" " " "
<u>Snap-On Socket Wrench Questionnaire.</u>	" " " "
<u>Selling Point of the Snap-On Socket Wrench Set, Form S-102 (KS).</u>	" " " "

Booklets.-

<u>ABC of Spray Painting Equipment</u> Very fine descriptive material on the art of spray painting.	The DeVilbiss Company
--	-----------------------

Bulletins. -

<u>Instructions for Operating and Parts Price List. Model 400 Universal Line Boring Machine.</u>	AMMCO Tools, Incorporated
<u>Instructions and Parts Price List. Seven Inch Precision Shaper.</u>	" " "
<u>Honing Machine, Wet and Dry.</u>	" " "
<u>Wet Honing Machines.</u>	" " "
<u>Dry Honing Machines.</u>	" " "
<u>Honing Heads.</u>	" " "
<u>Small Bore Hone.</u>	" " "
<u>Cylinder Surfacing Hone.</u>	" " "
<u>Self-Lubricating Hone.</u>	" " "
<u>Hydraulic Brake Cylinder Hone.</u>	" " "
<u>Connecting Rod Aligners.</u>	" " "
<u>Tension Indicators.</u>	" " "

<u>Universal Line Boring Machine.</u>	AMMCO Tools, Incorporated
<u>Oversize Surfacing Hone.</u>	" " "
<u>Seven Inch Precision Shaper.</u>	" " "
<u>K &amp; W Metallic Seal.</u>	Kerling and Company
<u>K &amp; W Radiator Seal.</u>	" " "
<u>K &amp; W Waterless Soap.</u>	" " "
<u>K &amp; W Metal Applicator.</u>	" " "
<u>K &amp; W Metal Applicator and Electrode Holders.</u>	" " "
<u>K &amp; W Electro-Mechanical Kit.</u>	" " "
<u>K &amp; W Pneumatic Peening Hammers.</u>	" " "
Catalogs. -	
<u>Blackhawk Catalog, with Index.</u>	Blackhawk Manufacturing Company
<u>Catalog, illustrates mechanics hand tools.</u>	Champion De Arment Tool Company
<u>Catalog, illustrates and explains arbor and hydraulic presses.</u>	Dake Engine Company
<u>Auto-Service Tools Catalog.</u>	K-D Manufacturing Company
<u>Catalog, No. 24, explains auto tools and accessories, 1948, 23 pp.</u>	" " " "
<u>Fundamentals of Automotive Mechanics, an Applied Course, 1942, 51 pp., (War Department Pre-induction Training Course, No. 202), .10¢, No. W1.40:202.</u>	U. S. Government Printing Office
<u>Pre-induction Vocational Train- ing in Auto-Mechanics, 1943, 17pp., (War Department, Pre- induction Training Course, No. 331), .10¢, No. W1.40:331.</u>	" " " " "
<u>Automobile Mechanics, 1945, 18pp., Price list No. 33, .10¢, No. L 23.842.</u>	" " " " "



<u>Catalog</u> , automobile parts catalog with price list.	The Bridgeport Hardware Manufacturing Corporation
<u>Catalog</u> , consists of a series of bulletins bound into one binder.	The Dallet Company
<u>Catalog</u> , illustrates body file work and items used for body and fender work.	The Nolvex File Company
Charts. -	
<u>Coated Abrasives for Finishing Metal</u>	Behr-Manning Corporation
<u>Coated Abrasives, Descriptions and Uses</u> , (14"x18"), contains mounted samples with explanations, free.	" " "
Films. -	
<u>Keeping Your Ear Fit</u> , OE-488, 12 minutes, sound, black and white, 16 mm.	Castle Films
<u>Know Your Car</u> , OE-486, 15 minutes, sound, black and white, 16 mm.	" "
<u>The Periodic Checkup</u> , OE-489, 18 minutes, sound, black and white, 16 mm.	" "
<u>Trouble Shooting Your Car</u> , OE-490, 12 minutes, sound, black and white, 16 mm.	" "
<u>Your Driving Habits</u> , OE-487, 15 minutes, sound, black and white, 16 mm.	" "
<u>The Battery, Ignition, and Electrical Systems</u> , OE-462, 26 minutes, sound, black and white. 16 mm.	" "
<u>The Clutch and Hand Brake</u> , OE-482, 12 minutes, sound, black and white, 16 mm.	" "
<u>Steering Wheel, Front and Rear Axles</u> , OE-484, 19 minutes, sound, black and white, 16 mm.	" "

Transmission, Drive Shaft, and Differential, Office of Education  
OE-485, 14 minutes, sound,  
black and white, 16 mm.

Trouble Shooting Problems, Fuel In- " " "  
duction, OE-276, 16 minutes,  
sound, black and white, 16 mm.

Trouble Shooting Problems, Ignition, " " "  
OE-275, 19 minutes, sound, black  
and white, 16 mm.

Trouble Shooting Problems, Mechanical " " "  
and Lubrication, OE-274, 10 minutes,  
sound, black and white, 16 mm.

The Cooling System and Fuel System, " " "  
OE-464, 22 minutes, sound, black  
and white, 16 mm.

Disassembling the Engine, OE-268, " " "  
13 minutes, sound, black and white,  
16 mm.

The Engine Assembly, OE-463, 19 " " "  
minutes, sound, black and white,  
16 mm.

Engine Tests and Tune Up, OE-465, " " "  
18 minutes, sound, black and white,  
16 mm.

The Hydraulic System, OE-483, 12 " " "  
minutes, sound, black and white,  
16 mm.

Inspecting and Reconditioning Piston " " "  
Assembly, OE-263, 22 minutes, sound,  
black and white, 16 mm.

Inspecting and Reconditioning Valve " " "  
Assembly, OE-264, 25 minutes, sound,  
black and white, 16 mm.

Introduction to Preventive Maintenance, " " "  
OE-461, 12 minutes, sound, black  
and white, 16 mm.

Overhauling Camshaft Assembly and " " "  
Crankshaft Section, OE-270, 19  
minutes, sound, black and white,  
16 mm.

Overhauling Crankshaft Assembly, " " "  
OE-269, 19 minutes, sound, black  
and white, 16 mm.



<u>Overhauling the Carburetor</u> , OE-267, 23 minutes, sound, black and white, 16 mm.	U. S. Office of Education
<u>Reassembling the Engine</u> , OE-271, 22 minutes, sound, black and white, 16 mm.	" " " "
<u>Removing and Inspecting Cylinders</u> , OE-262, 18 minutes, sound, black and white, 16 mm.	" " " "
<u>Servicing and Timing Magnetos</u> , OE-266, 16 minutes, sound, black and white, 16 mm.	" " " "
<u>Servicing Spark Plugs and Ig- nition Wiring</u> , OE-265, 22 minutes, sound, black and white, 16 mm.	" " " "
<u>Automobile Lubrication</u> , No. 151, 1 reel, silent, black and white, 16 mm.	U. S. Bureau of Mines
Forms. -	
<u>Heller Automotive Tools</u> , Form No. 154.	Heller Brothers
Manuals. -	
<u>Training Manual on Automotive Brakes</u> , excellent instructive manual on brakes.	Barrett Equipment Company
<u>Valve Service Manual</u> , primarily a maintenance manual for Ford automobile motors.	K-D Manufacturing Company
<u>Instruction Manual</u> , excellent instructive manual in motor block and head repair, 28pp, copyrighted 1946, free.	Kerkling and Company
<u>Motor's Auto Repair Manual</u> , \$5.95.	Motor Book Department
<u>Truck Repair Manual</u> , 8.00.	" " "
<u>Flat Rate Manual</u> , 7.00.	" " "



## Publications. -

<u>Mechanic, Automobile.</u> Price List 33, 1945, 11 pp, .05¢ W1.63:80.	U. S. Office of Education
<u>Automobile Mechanic,</u> price list 33, 1947, 6 pp, .05¢ L7.32Au8.	" " " "
<u>Automobile Mechanic,</u> (5-81.010) 1947, 4 pp, .05¢, L7.32/2: Au8.	" " " "
<u>Automobile Mechanic,</u> 1945, 14pp, (War Department Occupational Brief 80) .05¢ W1.63:80.	" " " "
<u>Automotive Engineer,</u> 1945, 12 pp, (War Department Occupational Brief 14) .05¢ W1.63:14.	" " " "

## Slidefilms. -

Kit A	The Jam Handy Organization
1. <u>Engine Tune-Up</u> , 32 pictures.	" " " "
2. <u>The Engine</u> , 49 pictures.	" " " "
3. <u>The Down-Draft Carburetor</u> , Part I, 58 pictures.	" " " "
4. <u>The Down-Draft Carburetor</u> , Part II, 40 pictures.	" " " "
5. <u>The Up-Draft Carburetor</u> , 51 pictures.	" " " "
6. <u>Modern Valve Reconditioning</u> , 55 pictures.	" " " "
7. <u>The Cooling System</u> , 37 pictures.	" " " "
Kit B	
1. <u>The Syncro-Mesh Transmission</u> , 151 pictures.	" " " "
2. <u>The 4-Speed Transmission</u> , 65 pictures.	" " " "
3. <u>The Clutch</u> , Part I, 51 pictures.	" " " "
4. <u>The Clutch</u> , Part II, 51 pictures.	" " " "
5. <u>The Hypoid Rear Axle</u> , 105 pictures.	" " " "
6. <u>The Full-Floating Rear Axle</u> , Part I, 38 pictures.	" " " "
7. <u>The Full-Floating Rear Axle</u> , Part II, 57 pictures.	" " " "
8. <u>The 2-Speed Rear Axle</u> , 80 pictures.	" " " "

## Kit C

1. <u>Knee-Action, Part I</u> , 27 pictures.	The Jam Handy Organization <sup>2</sup>
2. <u>Knee-Action, Part II</u> , 60 pictures.	" " " "
3. <u>Knee-Action, Part III</u> , 53 pictures.	" " " "
4. <u>Hydraulic Brakes</u> , 68 pictures.	" " " "
5. <u>Vacuum Power Brakes</u> , 45 pictures.	" " " "
6. <u>Shock Absorbers</u> , 61 pictures.	" " " "
7. <u>The Steering Gear</u> , 103 pictures.	" " " "
8. <u>Wheel Alignment</u> , 62 pictures, (Conventional Axles).	" " " "
9. <u>Wheel Alignment</u> , 49 pictures, (Dubonnet type knee action).	" " " "
10. <u>Wheel Alignment</u> , (1939 knee action), 52 pictures.	" " " "
11. <u>Wheel Balancing</u> , 69 pictures.	" " " "

## Kit D

1. <u>The Wiring System</u> , 44 pictures.	" " " "
2. <u>The Ignition System</u> , 76 pictures.	" " " "
3. <u>The Generator Regulator</u> , 69 pictures.	" " " "

## Kit E

1. <u>The Vacuum Gearshift</u> , 72 pictures.	" " " "
2. <u>Cab Over Engine Trucks</u> , 63 pictures.	" " " "
3. <u>Metal Bumping and Hot Shrinkage</u> , 52 pictures.	" " " "
4. <u>Major Body Repairs</u> , 67 pictures.	" " " "
5. <u>Turret Tops, Part I, Repair</u> , 59 pictures.	" " " "
6. <u>Turret Tops, Part II, replacement</u> , 138 pictures.	" " " "

<sup>2</sup>  
Jam Handy Individual Films \$3.50, Complete Kit Set \$99.00.



## CHAPTER III

## CERAMICS

Handbooks. -

Handbook of Modeling and Pottery Craft, excellent book dealing with ceramics. American Art Clay Company

Pamphlets. -

Pamphlet of Ceramic Supplies. " " " "

Films. -

Pottery Making, No. 235, shows a professional potter shaping, trimming, and firing. E. B. Films, Incorporated

Folder. -

The Urge To Make, a discussion on arts and crafts. Related Arts Service



## CHAPTER IV

## DRAFTING

## Books. -

Fundamentals of Mimeograph Stencil Duplication, fifteen lessons on duplicator instructions. A. B. Dick Company

## Booklets. -

Use and Care of Drawing Instruments, instructive exercises, 1945, 32 pp. Eugene Dietzgen Company

Techniques, best methods of sketching, 38 pp. .50¢. Higgins Ink Company, Incorporated.

Script and Manuscript, script lettering in theory and practice, 32 alphabets, .50¢. " " "

Cartooning, \$1.00. " " "

Arts and Crafts Projects, ten projects on desirable arts and crafts subjects. \$1.00. " " "

Higgins Color Card. Actual colors of Higgins American Drawing Inks applied to white drawing paper. Free. " " "

History of Ink, Free. " " "

Ink Sketching, Free. " " "

## Bulletins. -

Modernizing Instruments, by Jennie R. Zachs, 1946, a discussion on plastic drawing instruments. C-Thru Ruler Company

What, Why and How, essential facts about grinding, No. 1944. Norton Company

Lecture Course on Grinding, No. 902. " "

How to Increase Tool Life, No. 986. " "

## Catalogues. -

General Catalogue on Transparent  
Drawing Instruments.

C-Thru Ruler Company

Catalogue and Price List, 23 pp.  
free.

Engineering Manufacturing  
Company

Catalogue, describes drawing  
materials.

F. Weber Company

Norton Floors, No. 1935.

Norton Company

Architecture, Price list 33, 1932,  
10 pp., .05¢ No. I 16.44:10

U.S. Office of Education

Catalogue, descriptive catalogue  
on drafting machines and drawing  
instruments.

V and E Manufacturing Company

## Charts. -

Basic Problems in Industrial  
Design, chart illustrates  
ellipse, perspective circles,  
perspectives, isometrics, shades  
and shadows.

Eberhard Pencil Company

Basic Standards in Mechanical  
Drafting, chart illustrates  
lettering, titles, dimensions,  
sections and breaks, screw  
threads, view placement.

" " "

Standard Woodworking Joints,  
illustrates 60 various joints in  
carpentry, joinery, millwork,  
and cabinet-making.

" " "

Standard Symbols in Electronic  
and Radio Engineering, illustrates  
102 symbols.

" " "

Standard Symbols for Plumbing,  
Piping and Valves.

" " "

Standard Symbols for Wiring Plans.

" " "

Elements of Modern House Design.

" " "

Standard Techniques in Forming  
Letters.

" " "



Lettering Charts.

Eugene Dietzgen Company

Lettering Charts, six large wall charts Nos. 1 to 6 which illustrates how to letter and several styles of letters.

C. Howard Hunt Pen Company

## Notebooks.-

Association notebook of mimeograph tracing pages showing over 400 illustrations which can be used on many various school activities copyrighted 1947.

A. B. Dick Company

Producing the School Yearbook, helpful hints and aids for the school attempting its own yearbook publication, copyrighted 1939.

" " " "

## Films. -

Measurements and Measuring, 50 pictures, part I, \$4.50.  
Measurements and Measuring, part II, 64 pictures, \$4.50.  
Scales and Models, 80 pictures, \$4.00.  
Addition and Subtraction in Geometry, 51 pictures, \$4.00.  
Multiplication and Division in Geometry, 48 pictures, \$4.00.  
Angular Measurement, 68 pictures, \$4.00.  
Constructions, 57 pictures, \$4.00.  
T Squares and Triangles, part I, 31 pictures.  
T Squares and Triangles, part II, 60 pictures.  
Geometric Construction, part I, 43 pictures.  
Geometric Construction, part II, 36 pictures.  
Drawing an Anchor Plate, 25 pictures.  
Layout Work, part I, 112 pictures.  
Layout Work, part II, 133 pictures.  
Slotted Anchor Plate, 60 pictures.  
Layout Tools and Measuring Instruments, 96 pictures.  
Plotting Graphs, 62 pictures, \$4.00.  
Analytic Geometry, 62 pictures, \$4.00.

The Jam Handy Organization<sup>1</sup>

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<sup>1</sup>Jam Handy Individual Kits \$3.50, Complete Kit \$55.50.



Behind the Shop Drawing, 2 reels,  
\$66.00.

The Jam Handy Organization

Manuals. \*

How to Sell, combines selling of  
drawing equipment with the C-  
Thru product.

C-Thru Ruler Company

Drafting Standards, Accepted and  
Proposed, 30 pp.

Higgins Ink Company, Inc.

Ditto Writing and Drawing Materials.

Ditto, Incorporated

How to Make Ditto Direct Process  
Masters, K-5.

" "

Hints on School Newspapers.

" "

How to Construct and Use Objective  
Tests.

" "

Ditto Workbook.

" "

Publications. -

Architect, price list 33, 1945,  
10 pp. .05¢, W 1.63:5.

U.S. Office of Education

Architect, 1945, 10 pp, War  
Department (Occupational  
Brief 5).05¢, W1.63:5.

" " "

Layout Man 1 (Aircraft manufactur-  
ing) (4-80-022), Dec. 5, 1944,  
5pp, .05¢, Pr 32.5228:L45/3.

" " "

Draftsman, price list 33, 14 pp.,  
.05¢, W1.63:83.

" " "

Draftsman, Architectural, price  
list 33 (0048.05) No.L7.32:D78.

" " "

CHAPTER V  
ELECTRICITY

Books. -	
<u>Modern Engine Tune-Up</u> , \$6.00.	Allen Electric and Equipment Company
<u>Radio Formula and Data Book</u> , 37-752, .10¢.	Allied Radio Corporation
<u>Manual of Simplified Radio Servicing</u> , 37-755, .10¢.	" " "
<u>A Dictionary of Radio Terms</u> , 37-751, .15¢.	" " "
<u>Radio Builder's Handbook</u> , 37-750, .15¢.	" " "
<u>Radio Circuit Handbook</u> , 37-753, .25¢.	" " "
<u>Radio Data Handbook</u> , 37-754, .25¢.	" " "
<u>Coil Winding Calculator</u> , 37-955, .25¢.	" " "
<u>Parallel Resistance</u> , 37-960, .25¢.	" " "
<u>Audio Amplification</u> .	Concord Radio Corporation.
<u>The Oxy-Acetylene Handbook</u> , 587 pp., basic manual on cutting and welding and their related processes, \$1.50.	The Linde Air Products Company
<u>Electricity</u> , (textbook).	The Wiremold Company
<u>Electrical Instruments</u> , 53 pp., .50¢.	Westinghouse Electric Corpo- ration.
Booklets. -	
<u>Simplified Guide to A-C Motor Control</u> .	General Electric Company
<u>Sintered - Alnico Magnets</u> .	" " "
<u>Things I've Been Thinking About</u> .	" " "



	General Electric Company		
<u>The Story of Research.</u>	"	"	"
<u>The Story of Lightning, (APB-24).</u>	"	"	"
<u>How Electronic Tubes Work, (ETI-6).</u>	"	"	"
<u>Laboratory and Ship Equipment.</u>	"	"	"
<u>Romance of Electricity, (GEB-131).</u>	"	"	"
<u>Story of G-E Research, (APB-23).</u>	"	"	"
<u>Story of Steinmetz, (GEB-104).</u>	"	"	"
<u>Story of the Turbine, (APB-17).</u>	"	"	"
<u>The Story of X-ray, (APB-16).</u>	"	"	"
<u>Careers in the Electrical Industry,</u> <u>(APD-2-1).</u>	"	"	"
<u>Primer of Electronics, (GED-1068).</u>	"	"	"
<u>Generation of Electricity, (GEC-174).</u>	"	"	"
<u>Uses of Electricity, (APG-17).</u>	"	"	"
<u>Distribution of Electricity,</u> <u>(APG-17-1).</u>	"	"	"
<u>Electricity in Railroading,</u> <u>(APG-17-4).</u>	"	"	"
<u>Adventures in Jet Propulsion.</u> <u>(APG-17-2).</u>	"	"	"
<u>Fundamentals of Motors.</u>	"	"	"
<u>Construction Data for <math>\frac{1}{2}</math> Single</u> <u>Phase Industrial Motors.</u>	"	"	"
<u>Thy-Mo-Trol.</u>	"	"	"
<u>Thyratron Motor Control.</u>	"	"	"
<u>The ABC's of Radio (175-3012)</u> 68 pp., .25¢.	"	"	"
<u>Electronics-Its Start From the</u> <u>Edison Effect, (E-2).</u>	"	"	"
<u>Details of Television Station</u> <u>WRGB (EBT-9).</u>	"	"	"



<u>Electronics, A New Science for A New World</u> (GED-1028B).	General Electric Company
<u>Visual Alignment Technique for FM Servicing</u> (ESD-121).	" " "
<u>Home Lighting</u> , price .50¢.	Illuminating Engineering Society
<u>Industrial Lighting</u> , price .25¢.	" "
<u>Office Lighting</u> , price .50¢.	" "
<u>School Lighting</u> , price .50¢.	" "
<u>Street and Highway Lighting</u> , price .50¢.	" "
<u>Safety Illustrated</u> .	Leeds & Northrup Company
<u>Safety Rules for Outside Motor Vehicles Operated on Properties of Scovill Manufacturing Company</u> .	Scovill Manufacturing Company
<u>Rules, Procedures and Safety Instructions for Electrical Employees</u> , Jan., 1947, 40 pp.	" " "
<u>Electric Shop Equipment Booklet</u> .	Standard Electric Time Company
<u>The Storage Battery, Its Fundamentals, Use and Maintenance</u> .	The Electric Storage Battery Company
<u>Carbon Arc Welding</u> , explanation and illustrations of the carbon arc, 34 pp., .50¢.	The Hobart Brothers Company
<u>Hobart Vest Pocket Guide to Better Welding</u> , hints, short cuts, and tables which are used by welders, 30 pp.	" " " "
<u>Testing for Safety</u> , explains the organization, purposes and methods of Underwriters Laboratories, Inc., copyrighted 1945, 35 pp.	Underwriters Laboratories, Incorporated
<u>Convenient Tables and Formulae</u> , single copies free, 28 pp.	Westinghouse Electric Corporation
<u>Suggestions for Teaching Selected Material From the Field of Electricity</u> , monograph No. 3.	Weston Electrical Instrument Corporation

## Bulletins. -

<u>Arc Welding Manganese Steel</u> , D-1-b.	The Hobart Brothers, Company
<u>Arc Welding Cast Iron</u> , D-2-b.	" " " "
<u>Arc Welding Aluminum</u> , D-3-b.	" " " "
<u>Arc Welding Stainless Steels</u> , D-6-b.	" " " "
<u>Arc Welding Monel Metal and Nickel</u> , D-9-a.	" " " "
<u>A Primer on Grinding Wheel Safety</u> , No. 474.	Norton Company
<u>Construction of Electrical Furnaces for the Laboratory</u> , No. 458.	" "

## Catalogues. -

<u>Radio Parts Catalog.</u>	General Cement Manufacturing Company
<u>Fundamentals of Electricity</u> , a basic course, 1942, 46 pp., (War Department Pre-induction training course 101). 10¢, WL 40:101	U.S. Office of Education
<u>Catalogue and Wiring Guide.</u>	The Wiremold Company
<u>Teaching Aids Catalogue.</u>	Westinghouse Electric Corporation
Charts. -	
<u>Spark Characteristics Chart</u> , No. 176.	Norton Company
Two Charts, one showing the graphical solution of Ohm's Law problems and the other a cut away view of a rheostat and resistor.	Ohmite Manufacturing Company
<u>Safe Practices in Use and Maintenance of Low-voltage Electrical Equipment; Industrial safety charts, series K, Nos. 1-6 (1945) 11.1x43.14", Labor Standards Division, .05¢, LL 6.8:1/11.</u>	U.S. Office of Education



<u>Storage Battery Chart.</u>	The Electric Storage Battery Company
<u>Instrument Mechanism Wall Charts on Voltimeters and Ammeters.</u>	Weston Electrical Instrument Corporation
<u>Notebook size version of the Mechanism Wall Chart, E-4-a.</u>	" " "
Data Sheets. -	
<u>Experiments With Light, .25¢.</u>	Illuminating Engineering Society
<u>Chapters on Light, .25¢.</u>	" "
<u>Lessons in Practical Illumination, .25¢.</u>	" "
<u>Lessons in Practical Home Illumination, .25¢.</u>	" "
<u>Lighting Design Problems Course, \$1.50.</u>	" "
<u>Illuminating Engineering Nomenclature and Photometric Standards (1941) .50¢.</u>	" "
<u>Standard Method for Measuring and Reporting Illumination from Artificial Sources in Building Interiors, .10¢.</u>	" "
<u>Lighting Performance Recommendations for Portable and Installed Residence Luminaires, .50¢, July 1946.</u>	" "
<u>Actual Installations With Engineering Data, yearly series, 24 sheets each, series 8 to 12 available at \$1.00 per series.</u>	" "
<u>Standards of Quality and Quantity for Interior Illumination, .50¢.</u>	" "
<u>Electric Equipment, No. 9.</u>	National Safety Council
<u>Cutting Implements, No. 6.</u>	" " "
<u>Lifting, Carrying and Lowering, No. 7.</u>	" " "
<u>Hand Tools, No. 15.</u>	" " "

Data sheets pertaining to modernization and repair and maintenance work.

The Wiremold Company

Films. -

Energy and It's Transformations, Potential, Kinetic and Radiant Energy, one reel, No. 219.

Encyclopedia Britannica  
Films, Incorporated

Thermodynamics, depicts molecular action in heated iron with relation to temperature, No. 211, one reel.

" "

Home Electrical Appliances, explains the principles of the electric iron, fluorescent lighting, and the refrigerator, one reel, No. 150.

" "

First Aid, one reel, No. 179.

" "

Primary Cell, operations of the dry cell, one reel, No. 247.

" "

Elements of Electrical Circuits, elementary electrical explanations, one reel, No. 214.

" "

Series and Parallel Circuits, deals with resistance, current and voltage, one reel, No. 259.

" "

Sending Radio Messages, basic principles of radio transmission, No. 208, one reel.

" "

Magic of Fluorescence.

General Electric Company<sup>1</sup>

Exploring with X-rays.

" " "

Life of Thomas A. Edison.

" " "

The Worlds Largest Electrical Workshop.

" " "

Naturally It's F.M.

" " "

<sup>1</sup>All General Electric films can be secured for the cost of transportation.



<u>The Story of Electricity</u> , a documentary story dealing with persons and events leading up to the development of modern electricity, sound, \$40.00.	Knowledge Builders
<u>Identifying and Precutting Cable</u> , OE-112, 19 minutes, sound, black and white, 16 mm.	U.S. Office of Education
<u>Pulling and Installing Cable and Packing Terminal Tubes</u> , OE-113, 16 minutes, sound, black and white, 16 mm.	" " " "
<u>Laying Out and Installing Main Wire Ways</u> , OE-111, 21 minutes, sound, black and white, 16 mm.	" " " "
<u>Making a Five Tuck Splice</u> , OE-143, 26 minutes, sound, black and white, 16 mm.	" " " "
<u>Making a Wrapped and Soldered Splice</u> , OE-144, 15 minutes, sound, black and white, 16 mm.	" " " "
<u>Joining Solid Conductors</u> , OE-369, 22 minutes, sound, black and white, 16 mm.	" " " "
<u>Soldering Lugs and Splicing Stranded Conductors</u> , OE-371, 18 minutes, black and white, sound, 16 mm.	" " " "
<u>Wire Sizes and Voltage Drop</u> , OE-372, 13 minutes, sound, black and white, 16 mm.	" " " "
<u>Procelain Protected Surface Wiring</u> , OE-376, 19 minutes, sound, black and white, 16 mm.	" " " "
<u>Three-Wire Service Entrance</u> , OE-374, 24 minutes, sound, black and white, 16 mm.	" " " "
<u>Installing Surface Metal Raceway</u> , OE-380, 22 minutes, sound, black and white, 16 mm.	" " " "
<u>Roughing-In Nonmetallic Sheathed Cable</u> , OE-373, 24 minutes, sound, black and white, 16 mm.	" " " "





<u>Power Bending Conduit</u> , OE-382, 17 minutes, sound, black and white, 16 mm.	U.S. Office of Education
<u>D.C. Motor, Part I</u> , Mechanical Overhaul, OE-392, 20 minutes, sound, black and white, 16mm.	" " " "
<u>D.C. Motor, Part II</u> , Rewinding, OE-393, 37 minutes, sound, black and white, 16 mm.	" " " "
<u>Split-Phase Motor-Rewinding</u> , OE-394, 28 minutes, sound, black and white, 16 mm.	" " " "
<u>Three-Phase Motor, Part I</u> , Preparing to Rewind, OE-395, 17 minutes, sound, black and white, 16 mm.	" " " "
<u>Three-Phase Motor, Part II</u> , Rewinding, OE-396, 17 minutes, sound, black and white, 16mm.	" " " "
<u>Repulsion-Induction Motor-General Overhaul</u> , OE-397, 25 minutes, sound, black and white, 16 mm.	" " " "
<u>Crimes of Carelessness</u> , depicts fires caused by thoughtless smoking and the misuse of electricity, 10 minutes, Rental \$1.50, sale price \$20.00.	The Princeton Film Center
<u>Safety for Welders</u> , 7 minutes, Rental \$1.50, sale price \$9.60, demonstrates protective cloth- ing and equipment for welders to prevent injuries.	" " " "
<u>Basic Installation Methods</u> , elementary wiring installation.	M.K.M. Hill
<u>Elementary Electricity. Amperes, Volts, and Ohms</u> , MN-1540W, 1945, sound, black and white, 8 minutes, 16 mm.	Motion Picture Section Office of Public Information
<u>Elementary Electricity. Current and Electromotive Force</u> , MN-1540t, 1945, 11 minutes, sound, black and white, 16 mm.	" " "

<u>Elementary Electricity, Series and Parallel Circuits</u> , MN-1540V, 1945, 7 minutes, sound, black and white, 16 mm.	Motion Picture Section Office of Public Information
<u>Inductance</u> , (2 parts), MN-1540b, 1943, 33 minutes, sound, black and white, 16 mm.	" " "
<u>Oscillators</u> , MN-1540i, 1945, 13 minutes, sound, black and white, 16 mm.	U.S. Navy Department
<u>The Triode: Amplification</u> , OE-177, 14 minutes, sound, black and white, 16 mm.	U.S. Office of Education
<u>The Radio Man Fights</u> , MN-2621a, 1944, 7 minutes, sound, black and white, 16 mm.	U.S. Navy Department
<u>Radio Shop Techniques</u> , MN-1540e, 1943, 37 minutes, sound, black and white, 16 mm.	" " "
<u>Electricity</u> , illustrates testing conducted at the laboratory, sound, 30 minutes, 16 mm.	Underwriters Laboratory
<u>Electronics at Work</u> , 20 minutes, sound, black and white, 16 and 35 mm.	Westinghouse Electric Corporation
<u>What is Electricity</u> , 20 minutes, sound, black and white, 16 and 35 mm.	" "
<u>Adventures in Research</u> , 20 minutes, sound, black and white, 16 and 35 mm.	" "
<u>Commutation of D.C. Machines</u> , 24 minutes, sound, black and white, 16 mm.	" "
<u>Dawn of Better Living</u> , 16 minutes, sound, 16 and 35 mm.	" "
<u>Radio Frequency Heating</u> , 40 minutes, sound, 16 mm.	" "
<u>Unsung Heroes</u> , 30 minutes, sound, 16 mm.	" "



## Folders. -

<u>Radio Instruction Course</u> , consisting of twenty-five lesson folders and four wall charts, \$3.75.	Sylvania Electric Products
<u>Radio Instruction Course</u> , consisting of forty lesson folders and four wall charts, \$4.50.	" " "

## Guides. -

<u>Hints to Help Make Motors Last.</u>	Westinghouse Electric Corporation
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## Handbooks. -

<u>Allied Radio Data Handbook</u> , .10¢.	Allied Radio Corporation
<u>Dictionary of Radio Terms</u> , .15¢.	" " "
<u>Radio Builder's Handbook</u> , .15¢.	" " "
<u>Radio Circuit Handbook</u> , .25¢.	" " "
<u>Radio Data Handbook</u> , .25¢.	" " "
<u>Portable Electric Quick Saw Handbook</u> , copyright 1946, 20 pp.	Black and Decker Manufacturing Company
<u>Power Assembly Tools</u> , copyright 1941, 58 pp.	Black and Decker Manufacturing Company
<u>Portable Electric Tools</u> , copyright 1941, 63 pp.	Black and Decker Manufacturing Company
<u>IES Lighting Handbook</u> , one volume of technical and scientific lighting data and knowledge, \$7.50.	Illuminating Engineering Society
<u>Handbook of Residential Wiring Design</u> , .25¢.	" "
<u>Handbook of Farmstead Wiring Design</u> , .40¢.	" "
<u>Discussion of National Electrical Safety Code</u> , 1944, 162 pp., (National Bureau of Standards Handbook 39), Cloth .75¢, C 13.11:39.	U.S. Office of Education

## Instruction Sheets. -

Crow Rotating Electric Machine.Universal Scientific  
CompanyCrow Electro-Dynamic Instruction  
Equipment Model 500-G Lecture  
Demonstration Set.

" "

## Manuals. -

The Allen Manual of Automotive  
Electric Service, \$1.00.Allen Electric and Equip-  
ment CompanyOperating Instruction Manuals-  
Allen Equipment.

" " " "

Allen Service and Testing Equip-  
ment.

" " " "

Modern Engine Tune Up, \$6.00.

" " " "

Operating Instruction Manual-  
Allen Equipment, Free.

" " " "

Manual of Simplified Radio, .10¢.

" " " "

How to Maintain Electric Equip-  
ment, GET-1125A.

General Electric Company

Manual of Electric Instruments,  
GET-1087, 155 pp., \$1.00.

" " "

Flexarc Welding Manual for Farm  
and Shop, 105 pp., .50¢.Westinghouse Electric  
Corporation

## Publications. -

Industrial Electronics, (GEA-4227A).

General Electric Company

Fundamentals of Industrial  
Electronics, (GEA-4309).

" " "

Radio Operator I (O-61.30),  
June 1947, 6 pp., .05¢,  
L7.32:R12.

U.S. Office of Education

Radio Repairman I (5-83.411),  
Oct. 1947, 6 pp., .05¢,  
L7.32:R12/2.

" " " "



<u>Electric Refrigerator Serviceman</u> (5-83.031), Oct. 13, 1944, 4 pp., .05¢, Pr 32.5228: E1 2/2.	U.S. Office of Education	" " " "
<u>Electric Truck Operator</u> (7-88.410), June 1947, 4 pp., .05¢ L7.32:E1 2/2.		" " " "
<u>Electrician I</u> , (4-97.010) electrical repairman I (4-97.320), June 1947, 4 pp., .05¢, L7.32/2:E12.		" " " "
<u>Lineman 4</u> (5-53.420), June 1947, 6 pp., .05¢, L32.:64/2.		" " " "
Slidefilms. -		
<u>Ten Checks of Electrical Control Maintenance</u> , 35 mm., 14 minutes, black and white, sound slide film. (33 1/3 r.p.m. turntable).	Westinghouse Electric Corporation	" "
<u>Course-Electrical Measuring Instru- ments</u> , entire course includes one complete set of films and records, one instruction manual, and course text booklets for a class of twenty, \$26.00, booklets .25¢ each.		" "
<u>Course-Radio Frequency Heating</u> , complete course for a class of twenty; includes instruction manual, lesson booklets, sound slide films, and tests, \$185.00.		" "
<u>Course-Resistance Welding Control</u> , comprises seven separate lessons each covered by an individual slide film and a lesson book. Class of twenty \$50.00.		" "
<u>Electronics at work</u> , a complete course of ten parts, slide films \$50.00, complete course \$100.00.		" "
<u>Four-in One Guy</u> , 35 mm., 25 minutes, 33 1/3 r.p.m. turntable, Service man on calls.		" "

<u>How to Make Electrical Farm Equipment Last for the Duration</u> , 33 1/3 r.p.m. turntable, 35 mm, 15 minutes.	Westinghouse Electric Corporation
<u>Proper Care Means Longer Wear</u> , black and white slide film, 33 1/3 r.p.m. turntable, 15 minutes.	" "
<u>Training Filmslides on Industrial Electronics.</u>	General Electric Company
<u>An Adventure in Electronics.</u>	" " "
<u>Magnetism.</u>	" " "
<u>Thomas A. Edison.</u>	" " "
<u>Magnetism</u> , 56 pictures, \$4.50.	The Jam Handy Organization
<u>Static Electricity</u> , 91 pictures, \$4.50.	" " " "
<u>Current Electricity</u> , 73 pictures, \$4.50.	" " " "
<u>The Electric Cells</u> , 46 pictures, \$4.50.	" " " "
<u>The Storage Battery</u> , 101 pictures, \$4.50.	" " " "
<u>Electromagnetism</u> , 56 pictures, \$4.50.	" " " "
<u>The Generator</u> , 80 pictures, \$4.50.	" " " "
<u>Alternating Current</u> , 85 pictures, \$4.50.	" " " "
<u>Electric Motors</u> , 70 pictures, \$4.50.	" " " "
<u>Electric Meters</u> , 81 pictures, \$4.50.	" " " "
<u>Applications</u> , (part I), 63 pictures, \$4.50.	" " " "
<u>Applications</u> , (part II), 74 pictures, \$4.50.	" " " "
<u>Airplane Ignition</u> , 63 pictures, \$3.50.	" " " "
<u>Flight Instruments</u> , 112 pictures, \$3.50.	" " " "



<u>Electricity and the Storage Battery</u> , 95 pictures, \$3.50.	The Jam Handy Organization			
<u>Electricity and the Storage Battery</u> (part II), 91 pictures, \$3.50.	"	"	"	"
<u>The Starting Motor</u> , 93 pictures, \$3.50.	"	"	"	"
<u>Chassis Electrical Systems</u> , 42 pictures, \$3.50.	"	"	"	"
<u>Maintenance of Storage Batteries</u> , 55 pictures, \$3.50.	"	"	"	"
<u>The Ignition System</u> (how it works) 89 pictures, \$3.50.	"	"	"	"
<u>The Ignition System</u> (care and repair) 65 pictures, \$3.50.	"	"	"	"

Above kit complete \$73.25.

#### Kit D.

<u>Electricity and the Storage Battery</u> , 97 pictures, \$3.50.	The Jam Handy Organization			
<u>Electricity and the Storage Battery</u> , part II, 91 pictures, \$3.50.	"	"	"	"
<u>The Generator</u> , 115 pictures, \$3.50.	"	"	"	"
<u>Current and Voltage Regulation</u> , 110 pictures, \$3.50.	"	"	"	"
<u>The Starting Motor</u> , 89 pictures, \$3.50.	"	"	"	"
<u>Chassis Electrical Systems</u> , 42 pictures, \$3.50.	"	"	"	"

#### Kit E.

<u>Ignition Trouble</u> , 126 pictures, \$3.50.	"	"	"	"
<u>Engine Tune-Up</u> , Part I, 70 pictures, \$3.50.	"	"	"	"
<u>Engine Tune-Up</u> , Part II, 106 pictures, \$3.50.	"	"	"	"

Power Transmission Trouble,  
81 pictures, \$3.50.

The Jam Handy Organization

Safety Factors, 105 pictures  
\$3.50.

" " " "



CHAPTER VI  
MACHINE SHOP

Aids. -

<u>DoAll Job Selector.</u>	The DoAll Company
<u>A Short Study of Coolant Application.</u>	Gray-Mills Company
<u>Milling Machine No. 2, specifications and data.</u>	J.L. Lucas and Son
<u>Gutter Grinding Gauge.</u>	Warner and Swasey
<u>Speed and Feed Calculators.</u>	" " "

Blueprints. -

<u>Drawing M-1, Metal Lathe Tools and Tool Holder.</u>	Armstrong Brothers Tool Company
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Books. -

<u>Operator's Manual Book "C", \$1.00. Excellent instruction on the machine lathe.</u>	Covel Manufacturing Company
<u>Instruction Program Volume I, machine shop manual written from an instructors viewpoint.</u>	The DoAll Company
<u>The Magnolia Metal Bearing Book, a discussion of Magnolia Anti-friction metal, second edition, copyrighted 1927, 95 pp., \$1.00.</u>	Magnolia Metal Company
<u>Running a Regal, principles of engine lathe operation and maintenance.</u>	The R. K. LeBlond Machine Tool Company
<u>How to Machine Parts on Turret Lathes, Considered the best book available on the turret lathe, students and teachers cost .50¢, others \$1.00.</u>	The Wade and Swasey Company
<u>Turret Lathe Operators' Manual, Most complete treatise ever prepared on the turret lathe, students and teachers \$1.00, others \$2.50.</u>	" " " " "

Booklets. -

- |   |  |
|---|--|
| <u>Suggested Initial Equipment for Average School Workshop Requirements</u> , 5 pp.   | Atlas Press Company                              |
| <u>What is Carboloy Cemented Carbide</u> , copyrighted 1942, .05¢. (A film has been reproduced on this subject and is now available).   | Carboloy Company, Incorporated                   |
| <u>How to Use Carboloy Visual Training Films in Group Meetings</u> , a very good explanation of the use of visual aids.   | " " "  |
| <u>Chip Breakers</u> , copyrighted 1942, 15 pp., .05¢, (a film available on this subject).  | " " "  |
| <u>Brazing Carboloy Cemented Carbide Tools</u> , copyrighted 1942, 15 pp., .05¢, (a film available on this subject).  | " " "  |
| <u>Grinding Carboloy Cemented Carbide Tools</u> , copyrighted 1942, 23 pp., .05¢, (a film available on this subject).   | " " "  |
| <u>Putting Carboloy Tools to Work</u> , copyrighted 1942, 19 pp., .05¢, (a film available on this subject).   | " " "  |
| <u>Cutting Gear Teeth on a Milling Machine</u> , publication M-1397, contains brief instructions on cutting worm and wormwheels, .10¢.  | Cincinnati Milling and Grinding Machines Company |
| <u>Milling with High Speed Steel</u> . Presents a discussion of high speed steel milling cutters combining the results of extensive research work with practical suggestions in correct shop procedure, .10¢. | " " " "  |
| <u>Milling Machine Practice</u> , a discussion on analysis of the process of milling and the use of milling machines and cutters, .10¢.   | " " " "  |



- Physics of Metal Cutting, a reprint of a lecture by Hans Ernst during a series of educational lectures at the National Metal Congress, .10¢.
- Machinists Practical Guide. Cincinnati Milling and Grinding Machines Company
- Machines, Prices, Jobs; traces production in leading industries and gives examples of machinery, 1945. Morse Twist Drill and Machine Company
- The Toolsetters' Responsibility for Safety, 17 pp. National Machine Tool Builders Association
- Chucks and Their Uses. Scoville Manufacturing Company
- Setups on Cincinnati Shapers. Skinner Chuck Company
- Your Life in the Machine World. Copyrighted 1946. The Cincinnati Shaper Company
- Development of the Present Machine Age from the Beginning of History. The DoAll Company
- Your Life in the Machine Age, discusses from the beginning of time to the present with illustrations, copyrighted 1946, 52 pp. " " "
- Friction Sawing, copyrighted 1945, 23 pp., explanation and classification of friction sawing pertaining to metals and plastics. " " "
- Nineteen Unusual Uses for Your Drill Press or Lathe, 19 pp., .15¢. The Jacob Manufacturing Company
- The Tools and Rules for Precision Measuring, copyrighted 1947, 48 pp., free, describes and shows precision measuring tools available. The L. S. Starrett Company
- Operation Instruction Booklets on Shapers. The Ohio Machine Tool Company

Bulletins. -

<u>Cemented Carbide Tool Grinders.</u> Illustrations and prices, G.T.-195.	Carboloy Company, Incorporated
<u>Grinding Cemented Carbide Milling Cutters and End-Cutting Tools, G.T.-127.</u>	" " "
<u>Milling Steel and Carbides,</u> Technical explanation, 11 pp., copyrighted 1943.	" " "
<u>Your Own Inspection Laboratory,</u> explains how to establish a small compact but efficient inspection laboratory on a limited budget. Author- K.F. Kirchhofer.	George Scherr Company, Incorporated
<u>The Use of Gage Blocks.</u>	" " " "
<u>The Toolmaker's Microscope - Versatile Tool of High Accuracy.</u>	" " " "
<u>Motor Headstock Lathe, D-17.</u>	J. G. Blount Company
<u>One-half H.P. Motor Headstock Lathe, D-13.</u>	" " "
<u>Wet Tool Grinder, A-16.</u>	" " "
<u>All Purpose Grinders, C-7.</u>	" " "
<u>A-2 to A-5 Plain Bearing Wet Tool Grinders.</u>	" " "
<u>McCrosky Adjustable Blade Block Boring Bars, 17-B, copyrighted 1947, 15 pp.</u>	McCrosky Tool Corporation
<u>McCrosky Jack-Lock Serrated Blade Milling Machine, 16-M, 11 pp., 1948.</u>	" " "
<u>McCrosky Special Cost Cutting Tools, S-17, 15 pp.</u>	" " "
<u>McCrosky Wizard Quick-Change Chucks, 17-C, 11 pp.</u>	" " "
<u>McCrosky Turrets Tool Posts, 17-T 11 pp., May 1948.</u>	" " "



<u>McCrosky Super-Adjustable Reapers,</u> H-17, 15 pp.	McCrosky Tool Corporation
<u>From the Far Corners of the Earth,</u> 506.	Norton Company
<u>How to Increase Tool Life,</u> No.986.	" "
<u>Portable Grinding,</u> No. 1328.	" "
<u>The ABC of O.D. Grinding,</u> No. 2006.	" "
<u>What, Why, and How - Essential</u> <u>Facts About Grinding,</u> No. 1944.	" "
<u>Grinding and Head Treatment,</u> 2022.	" "
<u>Shop Notes on Grinding Carbide</u> <u>Tipped Tools,</u> 167X.	" "
<u>Mounted Wheels and Mounted Points,</u> No. 43.	" "
<u>Safety Code,</u> No. 254.	" "
<u>Lecture Course on Grinding,</u> No.902.	" "
<u>The ABC of Internal Grinding,</u> No. 436.	" "
<u>A Primer on Grinding Wheel Safety,</u> No. 474.	" "
<u>Grinding Wheel Information and</u> <u>Selection,</u> No. 626.	" "
<u>Construction of Electrical Furnaces</u> <u>for the Laboratory,</u> No. 458.	" "
<u>Bulletin.</u> Describes briefly the lathe and grinders made by this company.	Rivett Lathe and Grinder Incorporated
<u>Keep Your Lathe Clean.</u> Shows how protecting the lathe from dirt will increase production, reduce scrap, and lengthen the life of the lathe, H-1.	South Bend Lathe Works
<u>Oiling the Lathe,</u> explains the importance of oiling and lubricating, H-2.	" " " "

- The Installation and Leveling of the Lathe, reprint 1946, 20 pp., correct leveling the lathe. South Bend Lathe Works
- Keep Your Lathe in Trim, H-4 explains adjustments, power supply, lathe abuse etc. " " " "
- Jacobs Portomatic Chucks, 49 K. The Jacobs Manufacturing Company
- Jacobs Chucks for the Lathe, 49 L. " " "
- Jacobs Key Chucks, 49 M. " " "
- Jacobs Super Chucks, 49 N. " " "
- Jacobs Tap Chucks, 49 T. " " "
- Jacobs Rubber-Flax Hex-Key Chucks, 49 X. " " "
- Bulletin and Price List covering the mechanical specification, accessories, and attachments of the Sebastian lathe. The Sebastian Lathe Company
- Catalogues. -
- Parts Catalogue on grinding bits and tool holders. Armstrong Brothers Tool Company
- Catalogue of Machines and accessories, 62 pp., free. Atlas Press Company
- Tool Catalogue and Price List, 28pp. Carboloy Company, Incorporated
- Standard and Special Dies for Wire, Bar, Tubing and Sheet Metal, 30 pp., D-114 R. " " "
- Dake Arbor Presses, DA-46. Dake Engine Company
- Stemmler Archery, 19 pp. Stemmler, L. E. Company
- Catalogue Describing Enco Turrets. E.N.C.O. Manufacturing Company
- Catalogue composed of a series of bulletins on drill chucks, tapping devices, drilling heads, tapping machines, etc. Ettco Tool Company, Incorporated



<u>Precision Tools</u> , 96 pp.	George Scherr Company, Incorporated
<u>Greenlee Automatic Screw Machine</u> , 16 pp., free.	Greenlee Brothers and Company
<u>Heller Brothers Company</u> , 54 pp.	Heller Brothers
<u>Tool Catalogue</u> , 29 pp.	" "
<u>Ace Tools</u> , 32 pp.	Henry L. Hanson Company
<u>Build Your Own Machine Tools</u> , blueprints and castings, 31 pp., free.	Lewis Machine Tool Company
<u>Norton Grinding Wheels</u> , No. 1052. <u>Catalogue</u> .	Norton Company
<u>Catalogue 500 D</u> .	Pratt and Whitney
<u>Catalogue</u> , specifications and illustrations on shapers, hack saw, and punch presses.	Rivett Lathe and Grinder Corporation
<u>Fundamentals of Machines</u> , a basic course, 1942, 34 pp., (War Department Pre-induction Training Course 102) .10¢ W1.40:102.	Sales Service Machine Tool Company
<u>Pre-Induction Vocational Training in Machine Shop Practice</u> , 1943, 10 pp., (War Department Pre-induction Training Course 332) .10¢ W1.40:332.	U. S. Office of Education
<u>Job Machine Shops</u> , L7.16:M18 price list 33, 196 pp., \$1.25.	" " " "
<u>Machine Shop Occupations</u> , L23:895 price list 33, 28 pp., .20¢.	" " " "
<u>Catalogue No. 2</u> , punches, dies, rivet sets, chisel blanks, etc., 85 pp., free.	The Cleveland Steel Tool Company
<u>Jacobs Single Purpose Chuck Catalogue No. 49-S</u> , 10 pp.	The Jacob Manufacturing Company
<u>Catalogue</u> , describes tools, 10pp.	Wells Tool Company
<u>Art Metal Crafts</u> , copyrighted 1939, 184 pp.	William Dixon, Incorporated

## Charts. -

Wall charts covering phases of machine shop practice, .25¢.	Atlas Press Company
<u>Screw Thread and Tap Drill Sizes.</u>	Lufkin Rule Company
<u>Spark Characteristics</u> , No. 176.	Norton Company
<u>Safe Operation of Metal Shapers</u> ; industrial safety charts, series G, No. 1-6, 1945, 11x43.3", Labor Standards Division, L 16.8:Sa1/7.	U.S. Office of Education
<u>Safe Operation of Punch Presses.</u> be sure that press is in good condition, avoid injury; industrial safety chart, series N-6, 1946, 11"x43.13", Labor Standards Division, .05¢, L 16.8:Sa 1/14.	" " " "
<u>Safe Practices Around Drill Presses.</u> industrial safety charts, series S, No. 1-6, 1945, 11.1"x43.4", Labor Standards Division, .05¢, L 16.8:Sa 1.	" " " "
<u>Safe Practices Around Engine Lathes</u> , series D, No. 1-6, 1945, 11.1"x43.4", Labor Standards Division, .05¢, L 16.8:Sa 1/4.	" " " "
<u>Safety Around Grinding Wheels.</u> industrial safety charts, series F, No. 1-6, 1945, 11.3"x44", Labor Standards Division, .05¢, L 16.8:Sa 1/6.	" " " "
<u>Ready Reference Chart for Drilling.</u>	The Cleveland Twist Drill Company
<u>Speed and Feed Disc.</u>	" " " "
<u>Decimal Equivalent Charts.</u>	" " " "
<u>Drill Angle Gauges.</u>	" " " "
<u>Drill Angle Gauge Charts.</u>	" " " "
<u>Recommended Speeds, Pitches, Tempers, on DoAll Machines with DoAll Blades.</u>	The DoAll Company, Incorporated



- Wall chart which graphically points out the component parts of the engine lathe  
The R.K. LeBlond Machine Tool Company
- Series of wall charts showing the assembly and breakdown of the various parts of a lathe.  
The Sebastian Lathe Company
- Standard Design Lathe, 22"x34", wall chart of the Sebastian lathe.  
" " " "
- Assembly Drawings, 8½"x11" charts of lathe parts.  
" " " "
- Speed and feed chart of the turret lathe.  
Warner and Swasey
- Circulars. -
- Specifications pertaining to the plain and universal models of the milling machine.  
J.L. Lucas and Son, Incorporated
- Data Sheets. -
- Know how data sheets on the operation of machine shop equipment.  
J. H. Williams and Company
- Drawings. -
- Nineteen drawings which will enable a class to build a backstand idler pulley unit which can be used to convert a bench grinder to a sanding machine, .50¢.  
Behr-Manning Corporation
- Films. -
- The Use and Abuses of Twist Drills, sound, 26 minutes, 16 mm., free.  
The Cleveland Twist Drill Company
- Machine Maker, portrays the role of the machine tool in the age of technology, No. 184.  
Encyclopedia Britannica Films, Incorporated
- First Aid, No. 179.  
" "
- The Dial Indicator, color and sound, 16 mm., free.  
Federal Products Corporation

<u>Milling Practice</u> , Fundamentals of milling practice in five parts of one half hour each, sound, 35 mm., slidefilms. A Magna-Vox, Lustra-Vox or Operadio playback projection unit necessary.	Kerney and Krecker Corporation
<u>Lessons in Grinding</u> , No. 1716. (No information available, assume to be 16 mm.).	Norton Company
<u>The Steel Rule</u> , OE-1, 14 minutes, sound, black and white, 16 mm.	U.S. Office of Education
<u>The Micrometer</u> , OE-2, 15 minutes, sound, black and white, 16 mm.	" " " "
<u>Fixed Gauges</u> , 17 minutes, OE-3, sound, black and white, 16 mm.	" " " "
<u>Verniers</u> , OE-4, 19 minutes, sound, black and white, 16 mm.	" " " "
<u>Height Gages and Test Indicators</u> , OE-5, sound, black and white, 12 minutes, 16 mm.	" " " "
<u>Gage Blocks and Accessories</u> , OE-246, 23 minutes, sound, black and white, 16 mm.	" " " "
<u>The Bevel Protractor</u> , OE-50, sound, 23 minutes, black and white, 16 mm.	" " " "
<u>Visualizing an Object</u> , OE-51, sound, 9 minutes, black and white, 16 mm.	" " " "
<u>Reading a Three View Drawing</u> , OE-52, 10 minutes, sound, black and white, 16 mm.	" " " "
<u>Principal Dimensions, Reference Surfaces and Tolerances</u> , OE-53, 12 minutes, sound, black and white, 16 mm.	" " " "
<u>Sectional Views and Projections, Finish Marks</u> , OE-54, 15 minutes, sound, black and white, 16 mm.	" " " "
<u>Reading a Drawing of a Valve Bonnet</u> , OE-55, 20 minutes, sound, black and white, 16 mm.	" " " "



Fundamentals of Side Cutting Tools,  
OE-42, 11 minutes, sound, black  
and white, 16 mm.

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Fundamentals of End Cutting Tools,  
OE-43, 12 minutes, sound, black  
and white, 16 mm.

" " " "

Brazing Carbide Tools, OE-241,  
18 minutes, sound, black and  
white, 16 mm.

" " " "

Grinding Single Point Tools, OE-242,  
26 minutes, sound, black and  
white, 16 mm.

" " " "

Grinding Multiple Point Tools,  
OE-243, 20 minutes, sound, black  
and white, 16 mm.

" " " "

Cutting with Carbide Tools-Single  
Point, OE-244, 19 minutes, black  
and white, sound, 16 mm.

" " " "

Cutting with Carbide Tools-Mill-  
ing Cutters, OE-245, 15 minutes,  
black and white, sound, 16 mm.

" " " "

Basic Machines, OE-68, the lathe,  
15 minutes, black and white,  
sound, 16 mm.

" " " "

Basic Machines, the milling  
machine, OE-69, 15 minutes,  
black and white, sound, 16mm.

" " " "

Basic Machines, the shaper, OE-70,  
15 minutes, black and white,  
sound, 16 mm.

" " " "

Basic Machines, the drill press,  
OE-71, 10 minutes, black and  
white, sound, 16 mm.

" " " "

Rough Turning Between Centers,  
OE-6, 15 minutes, black and  
white, sound, 16 mm.

" " " "

Turning Work of Two Diameters,  
OE-7, 14 minutes, black and  
white, sound, 16 mm.

" " " "

Cutting a Taper with the Compound  
Rest and with a Taper At-  
tachment, OE-8, 11 minutes, black  
and white, sound 16 mm.

" " " "

<u>Drillings, Borings, and Reaming Work Held in Chuck</u> , OE-9, 11 minutes, black and white, sound, 16 mm.	"	"	"	"
<u>Cutting and External National Thread</u> , OE-10, 12 minutes, black and white, sound, 16 mm.	"	"	"	"
<u>Turning a Taper With the Tail Stock Set Over</u> , OE-44, 17 minutes, black and white, sound, 16 mm.	"	"	"	"
<u>Cutting and External Acme Thread</u> , OE-45, 16 minutes, black and white, sound, 16 mm.	"	"	"	"
<u>Cutting and Internal Acme Thread</u> , OE-56, 22 minutes, black and white, sound, 16 mm.	"	"	"	"
<u>Cutting an Internal Taper Pipe Thread</u> , OE-57, 20 minutes, black and white, sound, 16 mm.	"	"	"	"
<u>Turning Work Held on a Fixture</u> , OE-58, 21 minutes, black and white, sound, 16 mm.	"	"	"	"
<u>Boring to Close Tolerances</u> , OE-59, 17 minutes, black and white, sound, 16 mm.	"	"	"	"
<u>Machining Work Held in Chuck, Use of Reference Surfaces</u> , OE-60, 24 minutes, black and white, sound, 16 mm.	"	"	"	"
<u>Turning Work Held on A Mandrel</u> , OE-61, 20 minutes, black and white, sound, 16 mm.	"	"	"	"
<u>Using a Steady Rest</u> , OE-62, 25 minutes, black and white, sound, 16 mm.	"	"	"	"
<u>Using a Follower Rest</u> , OE-63, 21 minutes, black and white, sound, 16 mm.	"	"	"	"
<u>Using a Boring Bar Between Centers</u> , OE-64, 22 minutes, black and white, sound, 16 mm.	"	"	"	"



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<u>Using a Steady Rest When Boring</u> , OE-65, 21 minutes, black and white, sound, 16 mm.				
<u>Drilling and Tapping Cast Steel</u> , OE-22, 19 minutes, black and white, sound, 16 mm.	"	"	"	"
<u>Drilling to a Layout and Spotfacing Cast Iron</u> , OE-23, 15 minutes, black and white, sound, 16 mm.	"	"	"	"
<u>Drilling a Hole in a Pin</u> , OE-46, 10 minutes, black and white, sound, 16 mm.	"	"	"	"
<u>Locating Holes, Drilling and Tapping in Cast Iron</u> , OE-47, 18 minutes, black and white, sound, 16 mm.	"	"	"	"
<u>Countersinking, Counterboring, and Spot Facing</u> , OE-48, 20 minutes, black and white, sound, 16 mm.	"	"	"	"
<u>The Turret Lathe, an Introduction</u> , OE-212, 17 minutes, black and white, sound, 16 mm.	"	"	"	"
<u>Chuck Work, Part I, Setting Up Hexagon Turret Tools</u> , OE-213, 22 minutes, black and white, sound, 16 mm.	"	"	"	"
<u>Chuck Work, Part II, Setting Up Tools for Combined Cuts</u> , OE- 214, 16 minutes, black and white, sound, 16 mm.	"	"	"	"
<u>Setting Up and Machining Bar Stock</u> , OE-215, 34 minutes black and white, sound, 16 mm.	"	"	"	"
<u>Bar Work-Magnesium, Part I, Setting Up Bar Mechanism and Roller Turner</u> , OE-216, 18 minutes, black and white, sound, 16 mm.	"	"	"	"
<u>Bar Work-Magnesium, Part II, Setting Up Multiple Roller and Turning a Taper</u> , OE-217, 17 minutes, black and white, sound, 16 mm.	"	"	"	"

<u>Bar Work-Magnesium, Part III, Necking and Threading by use of Attachment and by Die Head,</u> OE-218, 23 minutes, black and white, sound, 16 mm.	"	"	"	"
<u>Planing a Flat Surface,</u> OE-66, 22 minutes, black and white, sound, 16 mm.	"	"	"	"
<u>Planing a Dovetail Splice,</u> OE-67, 28 minutes, black and white, sound, 16 mm.	"	"	"	"
<u>The Milling Machine,</u> OE-11, 8 minutes, black and white, sound, 16 mm.	"	"	"	"
<u>Cutting Keyways,</u> OE-12, 15 minutes, black and white, sound, 16 mm.	"	"	"	"
<u>Straddle and Surface Milling to Close Tolerances,</u> OE-13, 27 minutes, black and white, sound, 16 mm.	"	"	"	"
<u>Straddle Milling,</u> OE-14, 17 minutes, black and white, sound, 16 mm.	"	"	"	"
<u>Plain Indexing and Cutting a Spur Gear,</u> OE-15, 26 minutes, black and white, sound, 16 mm.	"	"	"	"
<u>Milling a Template,</u> OE-207, 17 minutes, black and white, sound, 16 mm.	"	"	"	"
<u>Cutting a Short Rack,</u> OE-208, 18 minutes, black and white, sound, 16 mm.	"	"	"	"
<u>Boring Holes with Offset Boring Head,</u> OE-209, 28 minutes, black and white, sound, 16 mm.	"	"	"	"
<u>Milling a Helical Cutter,</u> OE-210, 18 minutes, black and white, sound, 16 mm.	"	"	"	"
<u>Cutting Teeth on a Worm Gear,</u> OE-211, 17 minutes, black and white, sound, 16 mm.	"	"	"	"
<u>Using a Shell End Mill,</u> OE-72, 21 minutes, black and white, sound, 16 mm.	"	"	"	"



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<u>Cutting a Dovetail Taper Slide</u> , OE-73, 26 minutes, sound, black and white, 16 mm.	"	"	"	"
<u>Cutting a Round End Keyway</u> , OE-74, 22 minutes, sound, black and white, 16 mm.	"	"	"	"
<u>Milling a Helical Groove</u> , OE-75, 28 minutes, sound, black and white, 16 mm.	"	"	"	"
<u>Milling a Circular T-Slot</u> , OE-76, 22 minutes, sound, black and white, 16 mm.	"	"	"	"
<u>Rough Facing, Turning, and Drill- ing</u> , OE-16, 31 minutes, sound, black and white, 16 mm.	"	"	"	"
<u>Rough Facing and Boring, and Turn- ing a Shoulder on Vertical Turret Lathe</u> , OE-17, 22 minutes, sound, black and white, 16 mm.	"	"	"	"
<u>Facing, Turning, Boring, Grooving, and Chamfering</u> , OE-18, 31 minutes, sound, black and white, 16 mm.	"	"	"	"
<u>Setup for Face Milling with a Fixture</u> , OE-225, 20 minutes, sound, black and white, 16 mm.	"	"	"	"
<u>Face Milling with a Fixture</u> , OE-226, 16 minutes, sound, black and white, 16 mm.	"	"	"	"
<u>Contour Face Milling</u> , OE-227, sound, 17 minutes, black and white, 16 mm.	"	"	"	"
<u>Setup for Rough Line Boring</u> , OE-228, 15 minutes, sound, black and white, 16 mm.	"	"	"	"
<u>Rough Line Boring</u> , OE-229, 19 minutes, sound, black and white, 16 mm.	"	"	"	"
<u>Drilling, Tapping, Stub-Boring, and Reaming</u> , OE-230, 22 minutes, black and white, sound, 16 mm.	"	"	"	"
<u>Grinding a Plain Pin</u> , OE- 80, part I, <u>The Grinding Wheel</u> , 17 minutes, sound, black and white, 16 mm.	"	"	"	"

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<u>Grinding a Plain Pin</u> , OE-81, part II, <u>Grinding Operations</u> , 17 minutes, sound, black and white, 16 mm.				
<u>Grinding a Slender Shaft with Back Rest</u> , OE-82, 17 minutes, sound, black and white, 16 mm.	"	"	"	"
<u>Plunge Cut Grinding</u> , OE-83, 15 minutes, sound, black and white, 16 mm.	"	"	"	"
<u>Grinding a Taper</u> , OE-84, 19 minutes, sound, black and white, 16 mm.	"	"	"	"
<u>Thrufeed Grinding a Straight Pin</u> , part I, OE-85, 29 minutes, sound, black and white, 16 mm.	"	"	"	"
<u>Thrufeed Grinding a Straight Pin</u> , part II, OE-86, 28 minutes, sound, black and white, 16 mm.	"	"	"	"
<u>Infeed Grinding Shouldered Work</u> , OE-87, 23 minutes, sound, black and white, 16 mm.	"	"	"	"
<u>Infeed Grinding a Shaft of Two Dia- meters</u> , OE-88, 31 minutes, sound, black and white, 16 mm.	"	"	"	"
<u>Infeed Grinding a Tapered Pin</u> , OE-89, 26 minutes, sound, black and white, 16 mm.	"	"	"	"
<u>Sharpening a Side Milling Cutter</u> , OE-90, 23 minutes, sound, black and white, 16 mm.	"	"	"	"
<u>Sharpening a Plain Helical Cutter</u> , OE-91, 16 minutes, sound, black and white, 16 mm.	"	"	"	"
<u>Sharpening a Shell End Mill</u> , OE-92, 17 minutes, sound, black and white, 16 mm.	"	"	"	"
<u>Sharpening a Form Relieved Cutter</u> , OE-93, 18 minutes, sound, black and white, 16 mm.	"	"	"	"
<u>Sharpening an Angular Cutter</u> , OE-94, 15 minutes, sound, black and white, 16 mm.	"	"	"	"



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<u>Grinding a Straight Hole</u> , OE-77, 18 minutes, sound, black and white, 16 mm.	"	"	"	"
<u>Grinding a Deep Hole</u> , OE-78, 18 minutes, sound, black and white, 16 mm.	"	"	"	"
<u>Grinding and Facing a Blind Hole</u> , OE-79, 17 minutes, sound, black and white, 16 mm.	"	"	"	"
<u>Grinding a Parallel Bar</u> , part I, <u>Setting Up the Machine</u> , OE-220, 14 minutes, sound, black and white, 16 mm.	"	"	"	"
<u>Grinding a Parallel Bar</u> , part II, <u>Grinding Operations</u> , OE-221, 15 minutes, sound, black and white, 16 mm.	"	"	"	"
<u>Grinding a Template</u> , OE-222, 15 minutes, sound, black and white, 16 mm.	"	"	"	"
<u>Grinding a V Block</u> , OE-223, sound, 22 minutes, black and white, 16 mm.	"	"	"	"
<u>Grinding Thin Discs</u> , OE-224, 15 minutes, sound, black and white, 16 mm.	"	"	"	"
<u>Broaching an Internal Keyway</u> , OE-236, 23 minutes, sound, black and white, 16 mm.	"	"	"	"
<u>Single Ram Vertical Surface</u> <u>Broaching</u> , OE-237, 28 minutes, sound, black and white, 16 mm.	"	"	"	"
<u>Double Ram Vertical Surface</u> <u>Broaching</u> , OE-238, 30 minutes, sound, black and white, 16 mm.	"	"	"	"
<u>Cutting a Keyway on End of a</u> <u>Finished Shaft</u> , OE-19, 13 minutes, black and white, sound, 16 mm.	"	"	"	"
<u>Machining a Cast Iron Rectangular</u> <u>Block</u> , OE-20, 25 minutes, black and white, sound 16 mm.	"	"	"	"

Machining a Tool Steel V Block  
OE-21, 21 minutes, black and  
white, sound, 16 mm.

" " " "

Hobbing a Spur Gear, Part I,  
Setting up the Change Gears,  
OE-231, 15 minutes, black and  
white, sound, 16 mm.

" " " "

Hobbing a Spur Gear, Part II,  
Setting Up and Hobbing the  
Work, OE-232, 24 minutes, black  
and white, sound, 16 mm.

" " " "

Hobbing a Square Tooth Spline  
Shaft, OE-233, 17 minutes,  
black and white, sound, 16 mm.

" " " "

Hobbing a Worm Gear Infeed Method,  
OE-234, 18 minutes, black and  
white, sound, 16 mm.

" " " "

Hobbing a Helical Gear, Two Cuts-  
Non-differential Method, OE-235,  
17 minutes, black and white,  
sound, 16 mm.

" " " "

Sawing an Internal Irregular Shape,  
OE-239, 32 minutes, black and  
white, sound, 16 mm.

" " " "

Filing an Internal Irregular Shape,  
OE-240, 27 minutes, black and  
white, sound, 16 mm.

" " " "

Dimpling and Countersinking, OE-139,  
21 minutes, black and white,  
sound, 16 mm.

" " " "

Drilling with Portable Drill Motors,  
OE-138, 17 minutes, black and  
white, sound, 16 mm.

" " " "

Rabbiting and Shaping an Edge on  
Straight Stock, OE-318, 18 minutes,  
Black and white, sound, 16 mm.

" " " "

Shaping After Template and Shaping  
Curved Edges, OE-319, 17 minutes,  
black and white, sound, 16 mm.

" " " "

Drilling in Metal, Wood, and Plastics,  
MN-142, U.S. Navy Department, 1942,  
21 minutes, black and white, sound,  
16 mm.



<u>Drilling, Tapping, Stub-boring, and Reaming</u> , OE-230, 22 minutes, sound, black and white, 16 mm, 676.	U.S. Office of Education
<u>Drilling to a Layout and Spot-facing Cast Iron</u> , OE-23, 15 minutes, sound, black and white, 16 mm., 677.	" " " "
<u>Drilling with Portable Drill Motors</u> , OE-138, 17 minutes, sound, black and white, 16 mm., 678.	" " " "
<u>Locating Holes, Drilling and Tapping in Cast Iron</u> , OE-47, 18 minutes, sound, black and white, 16 mm., 679.	" " " "
<u>Reaming with Straight Hand Reamers</u> , OE-37, 20 minutes, sound, black and white, 16 mm., 680.	" " " "
<u>Chips; theory of cutting, grinding, and setting</u> , 16 mm., sound, black and white.	Warner and Swasey Company
Folders. -	
<u>Ultra-Chex</u> , the new precision length standards.	George Scherr Company, Incorporated
<u>Micrometers</u> .	" " " "
<u>Scherr Magne-Blox</u> .	" " " "
<u>Gaertner Toolmaker Microscope</u> .	" " " "
<u>Black King Files</u> .	Heller Brothers
<u>The Right File</u> .	" "
<u>Swiss Pattern Files</u> .	" "
<u>Curved Tooth Files</u> .	" "
<u>Grinding Wheel Markings</u> , No. 1223.	Norton Company
<u>Sparks Folder</u> , No. 1742.	" "
Handbooks. -	

<u>Universal Cutter and Tool Grinding</u> , 1944 copyrighted, 128 pp., \$1.00.	Covel Manufacturing Company
<u>A Handbook on Tool Room Grinding</u> , 835.	Norton Company
<u>Handbook for Drillers</u> , free.	The Cleveland Twist Drill Company
Instruction Sheets. -	
Set of eight instruction sheets for boring machine operations.	AMMCO Tools, Incorporated
Set of good instruction sheets for 7" precision shaper.	" " "
<u>How and Why Series of Looseleaf Instruction Sheets:</u>	J.H. Williams and Company
1. Williams' "Superior" Wrenches.	" " " "
2. Williams' Boring Tools.	" " " "
3. Vulcan Chain Pipe Tongs.	" " " "
4. "Supersocket" Wrenches.	" " " "
5. Lathe Dogs.	" " " "
6. "Vulcan" Chain Pipe Vises.	" " " "
7. Turning-Tools.	" " " "
8. Superior Wrenches.	" " " "
9. Supersockets.	" " " "
10. Eye Bolts.	" " " "
11. "C" Clamps.	" " " "
12. Cutting-Off Tool Holders.	" " " "
13. Knurling Tool Holders.	" " " "
14. Threading Tool Holders.	" " " "
15. Williams Boring Tools.	" " " "
16. Grinding Cutters for Williams' Tool Holders (Data Sheet A).	" " " "
17. Grinding Cutters for Williams' Tool Holders (B).	" " " "
18. Grinding Cutters for Williams' Tool Holders (C).	" " " "
19. Grinding Cutters for Williams' Tool Holders (D).	" " " "
20. Grinding Cutters for Williams' Tool Holders (E).	" " " "
21. Grinding Cutters for Williams' Tool Holders (F).	" " " "
22. The Proper Use of Open-End Wrenches.	" " " "
23. The Proper Selection and Use of Lathe Dogs.	" " " "



24. The Proper Selection and Use of Socket Wrenches. J. H. Williams and Company
- Directions for Taking Apart and Assembling Jacobs Chucks. The Jacob Manufacturing Company
- Common Jacob Chucks Abuses. " " "
- Instruction Sheets on Shaper, free. The Ohio Machine Tool Company
- Manuals. -
- Manual of Lathe Operation, operating information on all types of metal cutting lathes, 238 pp., copyrighted 1937, .85¢. Atlas Press Company
- Instructional Manual on Grinding Machines. Abrasive Machine Tool Company
- Carboloy Tool Manual, explanations in design, application, grinding, and brazing. " " " "
- Die Service Manual, copyrighted 1945, 64 pp., excellent manual on die service. " " " "
- Operators' Manual Book C. Covell Manufacturing Company
- Tool Manual, 16 pp. " " "
- McCrosky Quick-Change Chuck Manual, 15 pp. McCrosky Tool Corporation
- McCrosky Milling Cutter Manual. " " "
- McCrosky Reamer Manual (Instructions) 16 pp. " " "
- War Department Maintenance Manual and Parts Catalog. Sheldon Machine Company, Incorporated
- Operator's Manual, Cincinnati Shaper, excellent material on care and operation. The Cincinnati Shaper Company
- Running a Regal; a manual of lathe operations and maintenance of a modern geared head engine lathe, 129 pp., copyrighted 1945, .25¢. R.K. Le Blond Machine Tool Company

## Problems. -

<u>Basic Instructions in Aviation Drafting</u> , Prob. No. 20.	Eagle Pencil Company
<u>Basic Instructions in Aviation Drafting</u> , Prob. No. 19.	" " "
<u>Basic Instructions in Aviation Drafting</u> , Prob. No. 23.	" " "
<u>Basic Instructions in Aviation Drafting</u> , Prob. No. 21.	" " "

## Price Sheets. -

<u>Price Sheet</u> , contains illustrations with prices.	Champion De Arment Tool Company
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## Project Sheets. -

<u>Coated Abrasives for the Machine Shop</u> , project I.	Behr-Manning Corporation
<u>Oilstones Used in the Machine Shop</u> , project II.	" "
<u>Coated Abrasives for Woodwork</u> , project III.	" "
<u>Coated Abrasives for Woodwork</u> , project IV	" "
<u>The Use of Oilstones</u> , project V.	" "
<u>Coated Abrasives for Metal Preparation</u> , project VII.	" "
<u>Coated Abrasives for Metal Finishing</u> , project VIII.	" "
<u>Hand Stoned Cutting Tools Produce Faster, Better, More Cuts</u> , project IX.	" "

## Publications. -

<u>Tool and Die Maker</u> , 1946, 14 pp., (War Department Occupational Brief), .05¢, WL.63:103.	U.S. Office of Education
<u>Machinist 2</u> (4.75.010), June 1947, four pages, .05¢, L7.32/2M 11/947-2.	" " " "



<u>Job Description for Machine Shops</u> , 1938, 196 pp., (Employment Service), \$1.25, L7.16:M18.	U.S. Office of Education				
<u>Milling Machine Operator 2</u> , (4-78- 031), Oct. 1947, 6 pp., .05¢. L7.32:M 62/2.	"	"	"	"	"
<u>Tool and Die Maker</u> , (4-76.04), June 1947, 6 pp., .05¢, L7.32:T 61/947-2.	"	"	"	"	"
<u>Machinist, All-round</u> , W.163:72, 13 pp., price list 33, .05¢.	"	"	"	"	"
 <u>Slidefilms. -</u>					
Kit C complete \$53.50.	The Jam Handy Organization				
<u>Planers</u> , 39 pictures, \$4.50.					
<u>Specialized Machines</u> , 35 pictures, \$4.50.	"	"	"	"	"
<u>Other Specialized Machines</u> , 49 pictures, \$4.50.	"	"	"	"	"
<u>Drill Presses</u> , part 1, 41 pictures, \$4.50.	"	"	"	"	"
<u>Drill Presses</u> , part 2, 40 pictures, \$4.50.	"	"	"	"	"
<u>Grinding Machines</u> , 52 pictures, \$4.50.	"	"	"	"	"
<u>Lathe</u> , part 1, 67 pictures, \$4.50.	"	"	"	"	"
<u>Lathe</u> , part 2, 52 pictures, \$4.50.	"	"	"	"	"
<u>Milling Machines</u> , 55 pictures, \$4.50.	"	"	"	"	"
<u>Shapers</u> , 52 pictures, \$4.50.	"	"	"	"	"
Kit A.					
<u>The Machinist</u> , 50 pictures, \$4.50.	"	"	"	"	"
<u>Machine Tools</u> , 62 pictures, \$4.50.	"	"	"	"	"
<u>Machine Technique</u> , part 1, 85 pictures, \$4.50.	"	"	"	"	"
<u>Machine Technique</u> , part 2, 67 pictures, \$4.50.	"	"	"	"	"

Kit B.				
<u>Measurements and Measuring, part 1,</u> 50 pictures, \$4.50.	The Jam Handy Organization			
<u>Measurements and Measuring, part 2,</u> 64 pictures, \$4.50.	"	"	"	"
<u>Engine Lathes, Kinds, Parts, Safety,</u> 66 pictures, \$4.50.	"	"	"	"
<u>Engine Lathes, Operating Speeds,</u> 58 pictures, \$4.50.	"	"	"	"
<u>Engine Lathes, Carriage Controls,</u> <u>Feeds,</u> 69 pictures, \$4.50.	"	"	"	"
<u>Turning Tools,</u> 97 pictures, \$4.50.	"	"	"	"
<u>Chucks, Chucking Work,</u> 68 pictures, \$4.50.	"	"	"	"
<u>Centers, Setting Tools, Facing,</u> 72 pictures, \$4.50.	"	"	"	"
<u>Engine Lathe, Center Holes, Mounting</u> <u>Work, Facing Between Centers,</u> 57 pictures, \$4.50.	"	"	"	"
<u>Engine Lathe, Turning Between Centers,</u> <u>Shouldering,</u> 66 pictures, \$4.50.	"	"	"	"
<u>Engine Lathe, Recessing, Chamfering,</u> <u>Filing, Polishing, Knurling,</u> 59 pictures, \$4.50.	"	"	"	"
<u>Engine Lathe, Taper Turning, Thread-</u> <u>ing,</u> 85 pictures, \$4.50.	"	"	"	"
<u>Engine Lathe, Collets, Faceplates,</u> <u>Rests,</u> 64 pictures, \$4.50.	"	"	"	"



## CHAPTER VII

## METAL WORK

## Books. -

- |  |                                       |
|--|---------------------------------------|
| <u>A Lecture Course on Coated Abrasives in the Metal Working Industry</u> , copyrighted 1946, 72 pp., one copy free.   | Behr-Manning Corporation              |
| <u>Grinding Wheels</u> , 94 pp.  | Mid-West Abrasive Company             |
| <u>Technical Information on Revere Copper and Copper Alloy</u> , 4th edition, May 1947, complete detailed descriptions of 39 principal Revere alloys, 59 pp. | Revere Copper and Brass, Incorporated |
| <u>Radiant Panel Heating</u> , a non-technical discussion on the pros and cons of radiant panel heating.   | " " " "                               |
| <u>Vest Pocket Data Book</u> .   | Sunbeam Corporation                   |
| Booklets. -  |                                       |
| <u>Machines, Prices, Jobs</u> .  | Abrasive Machine Tool Company         |
| <u>Abrasive Surface Grinders</u> .   | " " " "                               |
| <u>Alcoa Aluminum and its Alloys</u> , 153 pp., 18 illustrations, 55 tables.   | Alcoa Library                         |
| <u>Aluminum Casting Alloys</u> , 94 pp., 22 illustrations, 11 tables.  | " "                                   |
| <u>Alcoa Structural Handbook</u> , \$1.25, Students .75¢.  | " "                                   |
| <u>Aluminum in the Chemical Industry</u> , 62 pp., 8 tables, 18 illustrations.   | " "                                   |
| <u>Aluminum - Its Story</u> , 45 pp., 31 illustrations.  | " "                                   |
| An Outline of Aluminum, 64 pp., 55 illustrations.  | " "                                   |

<u>Finishes for Aluminum</u> , 59 pp., 33 illustrations, free.	Alcoa Library
<u>Machining Alcoa Aluminum</u> , 48 pp., 8 tables, 23 illustrations, free.	" "
<u>Riveting Alcoa Aluminum</u> , 46 pp., 19 tables, 12 illustrations, free.	" "
<u>Welding and Brazing Alcoa Aluminum</u> , 17 tables, 37 illustrations, free.	" "
<u>Alcoa Aluminum and its Alloys</u> , fundamental information concerning alloys of aluminum, 168 pp., 18 illustrations, 55 tables, free.	Aluminum Company of America
<u>Alcoa Structural Handbook</u> , shapes produced in aluminum with data on strengths, \$1.25, students .75¢.	" " "
<u>Casting Alcoa Alloys</u> , description of the various aluminum casting alloys, 142 pp., 16 tables, 29 illustrations.	" " "
<u>Aluminum in Aircraft</u> , general infor- mation on Aluminum alloys and products etc., 36 tables, 114 pp., 33 illustrations.	" " "
<u>Forming Alcoa Aluminum and Magnesium</u> . Fabrication of metals, 88 pp., 14 tables, free.	" " "
<u>Alcoa Aluminum in Automatic Screw Machine</u> , basic information on machining aluminum alloys on automatic screw machines, 96 pp., free.	" " "
<u>Steel Makes the Home</u> , good booklet on steel in the construction of homes.	American Iron and Steel Institute
<u>Booklet</u> , deals with manufacture of steel and the making of the tin can, by Robert Skemp, 21 pp.	American Steel and Tin Plate Company
<u>Booklet on metal cutting band saw blades</u> .	Atlantic Saw Manufactur- ing Company
<u>Lecture Course on Coated Abrasives and its supplements on Metalworking</u> .	Behr-Manning Corporation



<u>Sandpaper - How and Why</u> , 25.	Behr-Manning Corporation
<u>How to Sharpen</u> , 25.	" " "
<u>Steel in the Making</u> ; a brief non-technical treatise describing the fundamentals of steelmaking, could be used as a text on steel. copyrighted 1942, 73 pp.	Bethlehem Steel Company
<u>Apprenticeship Booklet</u> .	Brown and Sharpe Manufacturing Company
<u>Metal Cutting</u> .	Clemson Brothers, Incorporated
<u>The History of Copper and Brass, Man's Most Useful Metals</u> ; (Small explanatory booklet with illustrations on his history of copper from the dawn of history to the present), free.	Copper and Brass Research Association
<u>Selecting the Right Tap for the Job</u> .	Greenfield Tap and Die Corporation
<u>Acorn Dies</u> .	" " " "
<u>Facts about Taps and Tapping</u> .	" " " "
<u>No. 1 Tap Talk</u> .	" " " "
<u>No. 2 How to Sharpen Taps</u> .	" " " "
<u>No. 3 Twenty-two Reasons Why A Good Tap Can Go Wrong</u> .	" " " "
<u>No. 4 Pocket Guide to Better Tapping</u> .	" " " "
<u>Lubricating Taps Right</u> .	" " " "
<u>Silver For The Craftsman</u> , (Basic information in ordering and working Sterling Silver), copyrighted 1946, 12 pp.	Handy and Harman
<u>Making Hand Wrought Sterling Silver Jewelry</u> , copyrighted 1945, price \$1.00, 15 pp., several projects and how to make them.	" " "
<u>Helpful Hints and Safety Suggestions</u> .	Macklin Company

<u>T-46 Tool Room.</u>	Macklin Company
<u>Machinist's Practical Guide.</u>	Morse Twist Drill and Machine Company
<u>The Niagara Handy Reference Booklet.</u>	Niagara Machine and Tool Works
<u>File Philosophy.</u>	Nicholson File Company
<u>The Spirit of Paul Revere--A Heritage for American Industry,</u> by C. Donald Dollar, copyrighted 1944.	Revere Copper and Brass Company
<u>Magnesium, the light weight metal for a multitude of uses, 18 pp.,</u> copyrighted 1945.	" " " "
<u>History of Copper and Brass--Man's Most Useful Metals.</u>	" " " "
<u>Booklet on Responsibility for Safety;</u> (explains safety operation of oil, gas, and electrical furnaces).	Scoville Manufacturing Company
<u>Tool Room Wheel Gradings and Marking System,</u> copyrighted 1945.	The Carborundum Company
<u>Causes and Correction.</u>	" " "
<u>Mounted Wheels,</u> copyrighted 1947.	" " "
<u>Roll Grinding.</u>	" " "
<u>The Romance of Carborundum,</u> copyrighted, 1945.	" " "
<u>Cutting-Off Wheels,</u> copyrighted 1946.	" " "
<u>Portable Grinding Machines.</u>	" " "
<u>The Operation of the 24M Di-Saw Machine.</u>	The Tannewitz Works
<u>Friction Sawing,</u> by Arthur A. Schwartz, explains cutting of metals and plastics with the Tannewitz band saw.	" " "
<u>Instructions for Setting Up and Operating The Tannewitz Di-Saw,</u> 27 pp., free.	" " "



Booklet devoted to the proper application of Hack Saw blades.

Victor Saw Works, Incorporated

Bulletins. -

<u>School Lathes</u> , D-13.	J. G. Blount
<u>School Lathes</u> , D-17.	" " "
<u>Wet Tool Grinders</u> , A-2.	" " "
<u>Wet Tool Grinders</u> , A-5.	" " "
<u>Twenty Foot Grinder Model</u> FTC, A-6.	" " "
<u>AC All Purpose Grinder</u> , C-7.	" " "
<u>Coolants for Abrasive Belts</u> .	Clover Manufacturing Company <sup>1</sup>
<u>Belt Sanding of Metal</u> , No. 2.	" " "
<u>Testing Coated Abrasives</u> , No. 3.	" " "
<u>Belt Sanding of Metal</u> , the polishing lathe, No. 4.	" " "
<u>The Effect of Moisture on the Work Value of Glue-Bonded Coated Abrasives</u> , No. 5.	" " "
<u>Abrasive Disc Sanders</u> , No. 6.	" " "
<u>Something Entirely New In Coated Abrasives</u> , saves cost and time, (No. 9 printed 1949, a bulletin is issued each month) free.	" " "
<u>Bulletin Twenty Flexible Shaft Tools for Industry</u> .	Foredom Flexible Shaft Tools
<u>Brazing Carbide Tool Tips with Easy-Flo</u> , No. 3, 11-A.	Handy and Harman
<u>Low Temperature Brazing of Metals with Sil-Fos and Easy-Flo for Speed, Strength, Economy</u> , 12-A, 18pp.	" " "
<u>How to Repair Broken Cutting Tools with Easy-Flo</u> . Bulletin 14, copy- righted 1944, 15 pp.	" " "

<sup>1</sup> Clover Manufacturing Company Booklets by E. B. Gallaher, M.E.

<u>Norton Cut-off Wheels for Delta Cutting-off Machines, No.1724.</u>	Norton Company
<u>Lecture Course on Grinding, No.902.</u>	" "
<u>Condensed Catalogue.</u>	Pratt and Whitney
<u>Bulletin 500 D; descriptive bulletin on lathes and grinders, 12 pp.</u>	Rivett Lathe and Grinder Incorporated
<u>King Kut Knives, Tools and Blades. Copyrighted 1947, descriptions of carving tools with prices.</u>	The A.P. Parts Corporation
<u>The Abrasive Tools of Industry, 4 pp., copyrighted 1942, free.</u>	The Carborundum Company
<u>What A Grinding Wheel Does, copyrighted 1942, 4 pp., free.</u>	" " "
<u>Standard Grinding Wheel Shapes, copyrighted 1942, 4 pp., free.</u>	" " "
<u>The Grinding Wheel as a Production Tool, copyrighted 1942, 4 pp., free.</u>	" " "
<u>Classes of Grinding Operations, copyrighted 1942, 4 pp., free.</u>	" " "
<u>Wheel, Work and Machine Movements, part I, copyrighted 1942, 4 pp., free.</u>	" " "
<u>Wheel, Work and Machine Movements, part II, copyrighted 1942, 4 pp., free.</u>	" " "
<u>Stresses Due to Wheel Works and Machine Movements, copyrighted 1942, 4 pp., free.</u>	" " "
<u>Stresses Due to Contact Between Wheel and Work, copyright 1942, 4 pp., free.</u>	" " "
<u>The Disposal of Chips, copyright 1942, 4 pp., free.</u>	" " "
<u>Grinding Wheel Safety, copyright 1942, 4 pp., free.</u>	" " "
<u>Wheel Balancing, copyrighted, 4 pp., free.</u>	" " "



<u>Dressing and Truing Tools</u> , copyright 1942, 4 pp., free.	The Carborundum Company
<u>Dressing and Truing Procedures</u> , copyright 1942, 4pp., free.	" " "
<u>Wheel Marking Symbols</u> , copyright 1942, 4pp., free.	" " "
<u>Center Type Cylindrical Grinding</u> , copyright 1942, 4pp., free.	" " "
<u>Centerless Type Cylindrical Grinding</u> , part 1, copyright 1942, 4 pp., free.	" " "
<u>Centerless Type Cylindrical Grinding</u> , part 2, copyright 1942, 4 pp., free.	" " "
<u>Surface Grinding</u> , copyright 1942, 4 pp., free.	" " "
<u>Internal Grinding</u> , copyright 1942, 4 pp., free.	" " "
<u>Cutting Off</u> , copyright 1942, 4 pp., free.	" " "
<u>Snagging and Off-Hand Grinding</u> , copyright 1942, 4 pp., free.	" " "
<u>Causes and Corrections of Common Grinding Errors</u> , copyright 1942, 4 pp., free.	" " "
<u>Coated Abrasives</u> , copyright 1942, 4 pp., free.	" " "
<u>Polishing Grains</u> , copyright 1942, 4 pp., free.	" " "
<u>Information Bulletin on the Pexto Sheet-Metal Machinery</u> .	The Peck Stow and Wilcox Company
Catalogues. -	
<u>Alcoa Library</u> , listings of all the available teaching aids and sound films.	Aluminum Company of America
<u>Catalogue</u> , information on Armstrong cutting tools.	Armstrong Brothers Tool Company

<u>Shapers</u> , No. S-48.	Atlas Press Company
<u>Milling Machines</u> , No. M-48.	" " "
<u>Ten Inch Lathe</u> , No. L-47.	" " "
<u>Hardsteel Tools</u> , copyright 1944, explains the special Black Hardsteel drill and gives operation sheets on how to use and set up, 19 pp.	Black Drill Company
<u>Parts Catalogue</u> , illustrates and describes all tools and equipment of the blow and forge type manufactured by Champion Blower and Forge Company.	Champion Blower and Forge Company
<u>Catalogue</u> , describes and illustrates the small handee tool and grinder with accessories, 63 pp.	Chicago Wheel and Manufacturing Company
<u>Catalogue</u> , <u>Twist Drills</u> , 55 pp.	Etna Twist Drill Company
<u>Catalogue</u> , summary of measuring instruments, tools, and gages.	George Scherr Company, Incorporated
<u>Catalogue</u> , deals with clamps, vises, and fastening devices used in shops.	Grand Specialties Company
<u>Taps and Dies</u> .	Henry L. Hanson Company
<u>Catalogue</u> , illustrates and explains furnaces made by the Johnson Company.	Johnson Gas Company
<u>Metal Crafts Catalogue</u> , contains some very good designs, illustrates and prices all types of metal working supplies and equipment, copyright 1948, 107 pp., .50¢.	Metal Crafts Supply Company
<u>Coated Abrasives</u> , No. 23, 56 pages of information with price list.	Mid-West Abrasive Company
<u>Grinding Wheel Information</u> .	" " " "
<u>The Niagara Condensed Catalogue</u> .	Niagara Machine and Tool Company
<u>Norton Grinding Wheel Price List</u> , No. 1655.	Norton Company



<u>Diamond Wheels Price List</u> , No. 1233.	Norton Company
<u>Segments</u> , No. 2345.	" "
<u>Grinding Wheel Recommendations for Grinding Machines</u> , No. 253.	" "
<u>Norton Grinding and Lapping Machines</u> , No. 1843.	" "
<u>Norton Grinding Wheels</u> , No. 1052.	" "
<u>Revere Standard Copper for Building Construction</u> , Architectural specifications for roofs, gutters, valleys, flashings, etc., 15 pp.	Revere Copper and Brass, Incorporated
<u>Revere Architectural Shapes and Sheets</u> , 11 pp.	" " " "
<u>Copper and Copper Alloys</u> , 15 pp.	" " " "
<u>Copper and Copper Alloys for the Process Industries</u> , 15 pp.	" " " "
<u>Revere Tube and Pipe</u> , 23 pp.	" " " "
<u>Radiant Panel Heating</u> , 1st edition, copyright 1947, 36 pp., a very good non-technical discussion pro and con.	" " " "
<u>Radiant Heat with Copper Tubing</u> , a practical research program, reprint 1947.	" " " "
<u>Catalog</u> , illustrates Sheldon Machines.	Sheldon Machine Company, Incorporated
<u>Tool Catalogue, Mechanics Handtools.</u>	The Cincinnati Tool Company
<u>Tools Catalogue.</u>	" " " "
<u>Art and Metal Tool and Supply Catalogue with Price List.</u>	William Dixon, Incorporated
<u>Catalogue</u> , illustrates pneumatic metal and stone working tools.	The Dallett Company
Charts. -	
<u>Helps for Sheet Metal Men.</u>	Niagara Machine and Tool Works

<u>Chemistry and History of Aluminum</u> , 17 7/8" x 27 1/2", gives chemistry and history of aluminum.	Aluminum Company of America
<u>Machining</u> ; 14 x 20", describes rake angles, tool materials, speeds and feed, and type of cutting compounds.	" " " "
<u>Welding and Brazing</u> , contains helpful information such as flame adjustment, 10 3/4" x 13 3/4".	" " " "
<u>Alcoa Global Map</u> ; North polar projection map of the world.	" " " "
<u>Lathe Practice</u> ; blue print style, complete set .25¢.	Atlas Press Company "
<u>Coated Abrasives for Finishing Metal</u> .	Behr-Manning Corporation
<u>Coated Abrasives, Descriptions, and Uses</u> .	" " "
<u>Drill Cutting Speeds for Number, Letter, and Fraction Sizes</u> , .25¢.	Cleveland Twist Drill Company
Charts available dealing with hand saws, files, and hack saws.	Henry Disston and Sons, Incorporated
Large wall charts on files and abrasives.	Nicholson File Company
<u>Sparks Characteristics</u> , No. 176.	Norton Company
<u>Grinding Wheel Markings</u> , No. 2208.	" "
<u>Maintenance of High Speed Swing Frame and Floor Stand Machines</u> , No. 2229.	" "
<u>Mounted Wheels and Points</u> , No. 1877.	" "
<u>Role Grinding</u> , No. 1645.	" "
<u>Threading Grinding</u> , No. 1848.	" "
<u>Ohm's Law</u> , wall chart.	Ohmite Manufacturing Company
<u>Parallel Resistance</u> .	" " "
<u>Steel Specifications</u> .	Sunbeam Corporation



<u>Furnace Maintenance.</u>	Sunbeam Corporation
<u>Micrometer.</u>	The Lufkin Rule Company
<u>Time Saver.</u>	" " " "
<u>Drill Card.</u>	" " " "
 Circulars. -	
<u>Carbide Tool Holders and Armide Cutters.</u>	Armstrong Brothers Tool Company
Notebook fillers on Enco machines Enco lathe turrets, bench lathes, engine lathes, and screw machines.	Enco Manufacturing Company
 Films. -	
<u>How to Weld Aluminum</u> , 17 minutes, sound, black and white, 16 mm.	Alcoa Library
<u>How to Weld Aluminum, Resistance Welding</u> , 12 minutes, sound, black and white, 16 mm.	" "
<u>How to Weld Aluminum, Arc Welding</u> , 10 minutes, sound, black and white, 16 mm.	" "
<u>This is Aluminum</u> , 35 minutes, sound, black and white, 16 mm.	" "
<u>Aluminum Fabricating Process</u> , 20 minutes, sound, black and white, 16 mm.	" "
<u>Dateline Tomorrow, Finishes for Aluminum</u> , 20 minutes, sound, black and white, 16 mm.	" "
<u>How to Form Aluminum</u> , general sheet metal practice, sound, black and white, 16 mm.	" "
<u>Blanking and Piercing</u> , 15 minutes, sound, black and white, 16 mm.	" "
<u>Drawing, Stretching, and Stamping</u> , 22 minutes, sound, black and white, 16 mm.	" "
<u>Spinning</u> , 16 minutes, sound, black and white, 16 mm.	" "

<u>Tube and Shape Bending</u> , 13 minutes, sound, black and white, 16 mm.	Alcoa Library		
<u>How to Machine Aluminum</u> , 32 minutes, sound, black and white, 16 mm.	" "		
<u>How to Rivet Aluminum</u> , 26 minutes, sound, black and white, 16 mm.	" "		
<u>How to Braze Aluminum</u> , 7 minutes, sound, black and white, 16 mm.	" "		
<u>Unfinished Rainbows</u> , 37 minutes, (the story of aluminum), sound, black and white, 16 mm.	" "		
<u>This is Aluminum</u> , 37 minutes, describes in detail the steps in mining bauxite as well as process- ing, sound, black and white, 16 mm.	" "		
<u>Shipways</u> , a dramatic record of the achievements in Bethlehem shipyards, 16 and 35 mm., sound, 40 minutes.	Bethlehem Steel Company		
<u>Steel-Plus</u> , production and use of tin plate, 16 mm., sound, 45 minutes.	" " "		
<u>Streamlined Steel</u> , scenes of modern steel making, 16 mm., sound, 45 minutes.	" " "		
<u>Sinews of Steel</u> , design, production, and application of wire rope, 16 mm., sound, 45 minutes.	" " "		
<u>Wire</u> , a vivid account of the manu- facture of wire products, 16 mm., sound, 45 minutes.	" " "		
<u>If It Happened Here</u> , industrial plant protection in time of war and emergencies, 16 mm., sound, 45 minutes.	" " "		
<u>Highlights in Steel Making</u> , part I, principal steps in the manu- facture and processing of steel, 16 mm., sound, 42 minutes.	" " "		
<u>Handwrought Silver</u> .	Handy and Harman		



<u>Highlights in Steel Making</u> , Part II, emphasizes the care taken in every step of steel manufacture, 16 mm., sound, 45 minutes.	Bethlehem Steel Corporation
<u>This is Steel</u> ; a concise pictorial presentation of steel in the making, 16 mm., sound, 28 minutes.	" " "
<u>The Making of Alloy Steel; Steps in the production of alloy steel</u> , 16 mm., sound, 45 minutes.	" " "
<u>Building the Golden Gate Bridge</u> ; follows the construction of the worlds largest suspension bridge, 16 mm., sound, 45 minutes.	" " "
<u>Decorative Metal Work</u> ; scenes of articles made of metal, sketches and designs drawn and shown, step by step procedure of etch- ing a metal bracelet.	Brandon Films, Incorporated
Aluminum, one reel, black and white, 16 mm., \$24.	Encyclopedia Britannica Films, Incorporated
<u>Metal Craft</u> , explains making a pewter bowl, a bronz bowl, and a molded candlestick, No. 236.	" " "
<u>Milling Practice</u> .	Kearney and Trecker Corporation
<u>Silversmithing</u> , \$60.	Library Films, Incorporated
<u>Blind Riveting</u> , OE-294, 15 minutes, sound, black and white, 16 mm.	U.S. Office of Education
<u>Hand Soldering</u> , OE-479, 20 minutes, black and white, sound, 16 mm.	" " " " "
<u>High Frequency Soldering</u> , OE-480, 17 minutes, black and white, sound, 16 mm.	" " " " "
<u>Blanking Sheet Metal on the Squaring Shear</u> , CE-130, 15 minutes, sound, black and white, 16 mm.	" " " " "

	U.S. Office of Education			
<u>Blanking Sheet Metal on the Squaring Shear</u> , OE-130, 15 minutes.	"	"	"	"
<u>Blanking Sheet Metal with Hand Snips</u> , OE-131, 18 minutes.	"	"	"	"
<u>Blanking with the Swing Arm Router</u> , OE-132, 17 minutes.	"	"	"	"
<u>Blanking with Rotary and High Speed Shear</u> , OE-292, 16 minutes.	"	"	"	"
<u>Forming with Rubber on the Hydraulic Press</u> , OE-133, 11 minutes.	"	"	"	"
<u>Forming on Rotary Machines</u> , OE-290, 17 minutes.	"	"	"	"
<u>Forming on a Hand Operated Brake</u> , OE-134, 17 minutes.	"	"	"	"
<u>Finish Forming by Hand</u> , OE-135, 16 minutes.	"	"	"	"
<u>Forming with a Drop Hammer</u> , OE-291, 17 minutes.	"	"	"	"
<u>Forming on the Stretching Machine</u> , OE-251, 17 minutes.	"	"	"	"
<u>Assembling in the Jig</u> , (fitting and lining up), OE-136, 16 minutes.	"	"	"	"
<u>Assembling in a Jig</u> , (drilling and riveting), OE-137, 21 minutes.	"	"	"	"
<u>Drilling with Portable Drill Motors</u> , OE-138, 17 minutes.	"	"	"	"
<u>Dimpling and Countersinking</u> , OE-139, 21 minutes.	"	"	"	"
<u>Driving and Bucking Rivets</u> , OE-140, 18 minutes.	"	"	"	"
<u>Removing Defective Rivets</u> , OE-141, 15 minutes.	"	"	"	"
<u>Squeeze Riveting-Stationary and Portable Riveters</u> , OE-293, 15 minutes.	"	"	"	"
<u>Blind Riveting</u> , OE-294, 15 minutes.	"	"	"	"
<u>Spot Welding</u> , OE-295, 20 minutes.	"	"	"	"



	U. S. Office of Education			
<u>Cutting Threads with Taps and Dies</u> , OE-34, 19 minutes.	"	"	"	"
<u>Scraping Flat Surfaces</u> , OE-35, 14 minutes.	"	"	"	"
<u>Fitting and Scraping Small Bearings</u> , OE-36, 24 minutes.	"	"	"	"
<u>Reaming with Straight Hand Reamers</u> , OE-37, 20 minutes.	"	"	"	"
<u>Reaming with Taper Hand Reamers</u> , OE-38, 15 minutes.	"	"	"	"
<u>Centering Small Stock</u> , OE-39, 12 minutes.	"	"	"	"
<u>Laying Out Small Castings</u> , OE-40, 16 minutes.	"	"	"	"
<u>Fundamentals of Filing</u> , OE-41, 12 minutes.	"	"	"	"
<u>Drilling and Tapping Cast Steel</u> , OE-22, 17 minutes.	"	"	"	"
<u>Drilling to a Layout and Spotfacing Cast Iron</u> , OE-23, 15 minutes.	"	"	"	"
<u>Drilling a Hole in a Pin</u> , OE-46, 10 minutes.	"	"	"	"
<u>Locating Holes, Drilling and Tapping in Cast Iron</u> , OE-47, 18 minutes.	"	"	"	"
<u>Countersinking, Counterboring, and Spot Facing</u> , OE-48, 20 minutes.	"	"	"	"
<u>Forging with a Hand Forge</u> , OE-191, 13 minutes.	"	"	"	"
<u>Forge Welding</u> , OE-192, 12 minutes.	"	"	"	"
<u>Forge Hardening and Tempering Farm Tools</u> , OE-193, 17 minutes.	"	"	"	"
<u>Brazing Flanges with Silver Solder</u> , OE-104.	"	"	"	"
<u>Brazing Flanges with Spelter</u> , OE-103.	"	"	"	"
<u>Bending Copper Tubing to a Wire Template</u> , OE-102, 22 minutes.	"	"	"	"

<u>Tinning and Solder Wiping</u> , OE-343, 26 minutes.	U. S. Office of Education <sup>2</sup>
<u>Making a Master Contour Templet</u> , OE-125, 18 minutes.	" " " " "
<u>Making a Master Developed Layout</u> , Part I, OE-126, 20 minutes.	" " " " "
<u>Making a Master Developed Layout</u> , Part II, OE-127, 17 minutes.	" " " " "
<u>Sawing Templet Metal</u> , OE-128, 17 minutes.	" " " " "
<u>Filing Templet Metal</u> , OE-129, 15 minutes.	" " " " "
<u>Making Sheet Metal Repairs</u> , OE-252, 19 minutes.	" " " " "
<u>Copper and Brass Alloys.</u>	Revere Copper and Brass, Incorporated
<u>Magnesium Alloys.</u>	" " " "
<u>Aluminum Alloys.</u>	" " " "
<u>How to Braze Aluminum</u> , No. X 219, Seven minutes, sound, black and white, 16 mm.	U. S. Bureau of Mines
<u>How to Form Aluminum; Blanking and Piercing</u> , No. X205, 16mm., sound, 16 minutes, black and white.	" " " " "
<u>How to Form Aluminum; Drawing, Stretching and Stamping</u> , No. X 207, 22 minutes, sound, black and white, 16 mm.	" " " " "
<u>How to Form Aluminum; General Sheet Metal Practice</u> , No. X204, 21 minutes, sound, black and white, 16 mm.	" " " " "
<u>How to Form Aluminum; Spinning</u> , No. X208, 17 minutes, sound, black and white, 16 mm.	" " " " "

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U. S. Office of Education films in the group, sound, black and white,  
16 mm.



<u>How to Form Aluminum; Tubes and shapes Bending</u> , No. X 206, 14 minutes, sound, black and white 16 mm.	"	"	"	"
<u>How to Machine Aluminum</u> , No. X194, 32 minutes, sound, black and white, 16 mm.	"	"	"	"
<u>How to Rivet Aluminum</u> , No. X195, 27 minutes, sound, black and white, 16 mm.	"	"	"	"
<u>How to Weld Aluminum; Arc Welding</u> , No. X221, 10 minutes, sound, black and white, 16 mm.	"	"	"	"
<u>How to Weld Aluminum; Resistance Welding</u> , No. X222, 12 minutes, sound, black and white, 16 mm.	"	"	"	"
<u>How to Weld Aluminum; torch welding</u> , No. X220, 17 minutes, sound, black and white, 16 mm.	"	"	"	"
Folders. -				
<u>Metal Cutting Band Saws.</u>	American Saw and Manufacturing Company			
<u>Sparks Folder</u> , No. 1742.	Norton Company			
<u>Ball Pein Hammers.</u>	Heller Brothers			
<u>Nucut Files.</u>	"	"	"	"
<u>Multi-Kut File.</u>	"	"	"	"
<u>Another New File.</u>	"	"	"	"
<u>Special Purpose Files.</u>	"	"	"	"
<u>Johnson Files.</u>	"	"	"	"
<u>Rex Files.</u>	"	"	"	"
<u>Curved Tooth Files.</u>	"	"	"	"
<u>Rotary Files.</u>	"	"	"	"
<u>Black King Files.</u>	"	"	"	"
<u>The Right Files.</u>	"	"	"	"

<u>Swiss Pattern Files.</u>	Heller Brothers
<u>Curved Tooth Files.</u>	" "
<u>Magne-Blox.</u>	George Scherr Company, Incorporated
<u>Ultra-Chex.</u>	" " " "
<u>Tool Grinding.</u>	" " " "
Folder on drills and grinders.	Speedway Manufacturing Company
<u>Office Necessities.</u>	William Schollhorn Company
<u>Pliers.</u>	" " "
<u>Pliers and Special Purpose Tools.</u>	" " "
<u>Tap Extractor.</u>	The Walton Company
<u>How to Use the Walton Tap Extractor.</u>	" " "
Handbooks. -	
<u>Coated Abrasives.</u> Describes the coated abrasive industry and stresses the importance of these products, 36 pp., copyrighted 1945, .25¢.	Clover Manufacturing Company
<u>A Handbook on Abrasives,</u> No. 1508.	Norton Company
<u>A Handbook on Tool Room Grinding,</u> No. 835.	" "
Handbook on Heat Treating information and Equipment.	Sunbeam Corporation
Instruction Sheets. -	
Instruction sheets for mechanical tongs.	Princeton Tool Company
<u>Interesting Facts About Diamonds.</u>	" " "
<u>Recommendations for the use of Master Aluminum Solder.</u>	The Kindt-Collons Company
Instructional materials covering the Circular Saw, Band Saw, Knives, Hack Saw, Files and Metal Cutting Band Saws.	Simonds Saw and Steel Company



<u>Shaper Progress, Cincinnati Shapers.</u>	Cincinnati Shaper Company
<u>Railroad, the Place of the Shaper.</u>	" " "
<u>Master Tools of Industry.</u>	" " "
<u>Grand Quality No. 6 Clamps and Vises.</u>	Grand Specialties Company
<u>Grand Welding Clamps.</u>	" " "
<u>Grand Vise Master.</u>	" " "
<u>Grand Sasgen Portable Shop Cranes.</u>	" " "
<u>Grand Door Holders.</u>	" " "
Leaflets. -	
<u>Standard Pricing Schedules for Handy and Harman Silver Brazing Alloys and Flux.</u>	Handy and Harman
<u>Where You Can Purchase Sil-Fos, Easy-Flo, and Handy Flux.</u>	" " "
<u>Instructions for Torch Brazing with Sil-Fos, Easy-Flo, and Handy Silver Solders.</u>	" " "
<u>It's Smart Business for You to Use Huther Patented Inserted Tooth Milling Saws.</u>	Huther Brothers
<u>Huther Brothers New Band Saw Guide, No. 107.</u>	" "
Manuals. -	
<u>Abrasives Surface Grinders, price list and instruction manual.</u>	Abrasive Machine Tool Company
<u>Lathe Operation; .85¢, 237 pp., copyrighted 1937, indexed with excellent instructive material.</u>	Atlas Press Company
<u>Fundamentals of Silver Alloy Brazing, copyrighted 1947, 30 pp.</u>	Handy and Harman
<u>Fundamentals of Silver Alloy Brazing for the Jewelry Industry; copyrighted 1948, 28 pp., developments and discussions of Silver Soldering.</u>	" " "

<u>Disston Saw, Tool, and File Manual</u> ; all types of saws both hand and machine.	
Pamphlets. -	
<u>Fundamentals of Silver Alloy Brazing.</u>	Handy and Harman
Publications. -	
<u>Coppersmith II.</u> (4-80.080) price list 33, Labor, June 1947, 6 pp., .05¢ L7.32: C79.	U.S. Office of Education
<u>Patternmaker, Metal</u> (5-17.010) June 1947, 5 pp., .05¢, price list 33, L7.32: P27/2.	" " " "
<u>Sheet-metal Layout Man I</u> (4-80.020). June 6, 1945, reprinted 1947, 6 pp., .05¢, price list 33, Pr32.5228:Sh 3/3-2.	" " " "
<u>Sheet-metal Worker II</u> , (4-80.10) June 1947, 5 pp., .05¢, price list 33, L7.32:Sh3.	" " " "
<u>Sheet-metal Worker, Aircraft II</u> ; (4-80.060), December 6, 1944, reprint 1947, 6 pp., .05¢, Pr32.5228:Sh3/2-2.	" " " "
<u>Blacksmithing II</u> , (4-86.010), price list 33, 5 pp., .05¢, 1947, L7.32:B56.	" " " "
Slidefilms. -	
<u>Hand Tools</u> , 140 pictures.	The Jam Handy Organization
<u>Hand and Power Hack Saws</u> , 73 pictures.	" " " "
<u>Drills and Drilling</u> , 117 pictures.	" " " "
<u>Reaming, Tapping, and Thread- ing</u> , 82 pictures.	" " " "
<u>Finishing Rough Castings</u> , 60 pictures.	" " " "



<u>Scraping</u> , 73 pictures.	The Jam Handy Organization
<u>Rivets and Riveting</u> , 84 pictures.	" " " "
<u>Layout Tools and Measuring Instruments</u> , 96 pictures.	" " " "
<u>Layout Work Part I</u> , 112 pictures.	" " " "
<u>Layout Work Part II</u> , 133 pictures.	" " " "
<u>Turning Tools</u> , 97 pictures.	" " " "
<u>Kinds-Parts-Safety</u> , 66 pictures.	" " " "
<u>Operating Speeds</u> , 58 pictures.	" " " "
<u>Carriage Controls-Feeds</u> , 69 pictures.	" " " "
<u>Chucks - Chucking Work</u> , 68 pictures.	" " " "
<u>Centers - Setting Tools - Facing</u> , 72 pictures.	" " " "
<u>Center Holes - Mounting Work - Facing Between Centers</u> , 57 pictures.	" " " "
<u>Turning Between Centers - Shoulder-ing</u> , 66 pictures.	" " " "
<u>Recessing - Chamfering - Filing - Polishing - Knurling</u> , 59 † pictures.	" " " "
<u>Taper Turning - Threading</u> - 85 pictures.	" " " "
<u>Collets - Faceplates - Rests</u> , 64 pictures.	" " " "
Treatise. -	
<u>Steel in the Making</u> . A brief non-technical treatise describing the fundamentals of steelmaking; a very good article. Copyrighted, 1942.	Bethlehem Steel Company

## CHAPTER VIII

## PLASTICS

Booklets. -

- The ABC of Modern Plastics. Bakelite Corporation
- Lecture Course on Coated  
Abrasives; supplement on  
plastics. Provides a wealth  
of information on sandpaper  
beginning in the quarries  
through factories to the  
finished products in the hands  
of the public. Behr-Manning Corporation
- Plastics Jewelry...A Hobby or a  
Business. A small booklet  
dealing with designs, markets,  
projects, and plastic accesso-  
ries, 1947, 20 pp., .10¢. Bōdnar Industries, Incorporated
- The Fabrication of Catalin Methods  
and Equipment, 60 pp., copyright  
1941. Catalin Corporation
- Thirty-four page booklet with price  
list and suggested projects,  
copyright 1946, .50¢. Douglas Home Craftsman
- What are Plastics? (CDP-524). General Electric Company
- The Story of an Industry. Plaskon Division, Libby-  
Owens Ford Glass Company
- Working With Plexiglas, one of the  
best available booklets dealing  
with the working of plastics;  
contains excellent projects and  
illustrates working methods, \$1.00. Rohm and Hass Company
- Coated Abrasives in the Plastic  
Industry. Behr-Manning Corporation
- Plastics Fabrication Manual, gives  
information on shaping, forming,  
cutting, etc., copyrighted. Berton Plastics, Incorporated
- Interlake Resin 4585 How Pressure  
Paper Bases Laminators, 4 pp. Interlake Chemical Corpo-  
ration
- Interlake 4257 Liquid Glue for  
Binding Mineral Wool, 1946, 7 pp. " " "



<u>Makalot Molding Compounds</u> , 1946, 4 pp.	Interlake Chemical Corporation
<u>FD Resins for Bonding Surfacing Laminating Impregnating</u> , 1945, 7 pp.	" " "
<u>Blow Molding of Thermo-Plastics</u> , copyright 1945.	Plax Corporation
<u>Annealing of Styrene and Related Resins</u> , copyrighted.	" "
<u>Fabrication Polystyrene</u> , an article based on techniques developed by the Plax Corporation, copyright 1946.	" "
<u>Fastraverse Metal Working Presses</u> , 11 pp., No. 4706.	The Hydraulic Press Manufacturing Company
<u>All-Hydraulic Presses for Compression and Transfer Molding of Plastics</u> , bulletin 4702.	" "
<u>Plastics.- The Pressure Processing of Synthetics</u> , bulletin 4404.	" "
<u>Injection Molding Machines</u> , bulletin 4802.	" "
<u>Plastics - Sheets - Rods - Tubes</u> , 18 pp.	American Phenolic Corporation.
<u>Plastics</u> , price list catalogue.	Berton Plastics, Incorporated.
<u>Plastics and Plywood</u> .	Carmen - Bronson Corporation
Charts. -	
<u>Plastic Reference Chart</u> , large chart giving complete abrasive information on all plastics.	Behr-Manning Corporation
Data Sheets. -	
<u>Plax Polyethylene is a Designers Plastic</u> .	Plax Corporation
<u>Data on Plax Ethyl Cellulose Products</u> .	" "
<u>Data on Plax Polyethylene Products</u> .	" "

<u>Plax Cellulose Acetate Butyrate Products.</u>	Plax Corporation
<u>Data on Plax Cellulose Acetate Products.</u>	" "
<u>Plax Methacrylate Rod, Tubing and Fiber.</u>	" "
<u>Data on Polystyrene Forms by Plax.</u>	" "
<u>Die-cut Parts from Plax Polystyrene.</u>	" "
<u>Colorful Plax Plastics Blown Products.</u>	" "
<u>How to Polish Plax Polystyrene Products.</u>	" "
<u>How to form Plax Polystyrene Rod.</u>	" "
<u>How to Use Coolants with Plax Polystyrene.</u>	" "
<u>How to Cement Plax Polystyrene.</u>	" "
<u>What to Tell Machinist on Plax Polystyrene.</u>	" "
<u>Notes on Design and Assembly of Plax Polystyrene.</u>	" "
Films. -	
<u>Selecting the Right Thermosetting Molding Material</u> , technical sound film 1 of a series on Bakelite Plastics, handling charge of .50¢, 30 minutes, sound, 16 mm.	Bakelite Corporation
<u>Product Design and Molding Technique for Thermosetting Plastics</u> , technical sound film 2 of a series on Bakelite Plastics, 16 mm., 42 minutes, handling charge .50¢.	" "
<u>Plastic Art</u> , No. 146, shows the stages by which a well known sculptor conceives and executes a bronze statuary group.	Encyclopedia Britannica Films, Incorporated
<u>Finishing Molded Parts</u> , OE-474, 14 minutes, sound, black and white, 16 mm.	U.S. Office of Education



<u>Origin of Synthesis of Plastic Materials</u> , OE-466, 16 minutes.	U.S. Office of Education
<u>Method of Processing Plastic Materials</u> , OE-467, 21 minutes.	" " " "
<u>Preparing the Charge and Loading the Mold</u> , OE-468, 11 minutes.	" " " "
<u>Molding a Simple Part</u> , OE-469, 11 minutes.	" " " "
<u>Molding a Part with Inserts</u> , OE-470, 10 minutes.	" " " "
<u>Semiautomatic and Hand Molding of Intricate Parts</u> , OE-471, 16 minutes.	" " " "
<u>Setting Up the Press and Molding a Part</u> , OE-472, 16 minutes.	" " " "
<u>Cleaning and Servicing the Press</u> . OE-473, 12 minutes.	" " " "
<u>Machining Laminated Plastics</u> , OE-475, 19 minutes.	" " " "
<u>Maintenance of Plexiglass and Lucite</u> , MN-2218 b, U.S. Navy Department, 1945, 37 mm., sound, black and white.	" " " "
Folders. -	
<u>New Liquid Plastic</u> ; the story and explanation of Castolite.	The Castolite Company
Instruction Sheets. -	
Instruction sheets and working drawing for plastic sheets.	Carmen-Bronson Company
Plans. -	
<u>Wheelbarrow</u> .	Douglas Home Craftsman
<u>Picture Frame</u> , (two styles).	" " "
<u>Tie Rack</u> .	" " "
Cigarette Box.	" " "

<u>Name Plate.</u>	Douglas Home Craftsman
<u>Card Stand.</u>	" " "
<u>Pencil Holder.</u>	" " "
<u>Cigarette Box. No.8.</u>	" " "
<u>Modern Letter Holder.</u>	" " "
<u>Serving Tray.</u>	" " "
<u>Jewelry Box.</u>	" " "

Publications. -

Plexiglas Former, (5-77.040)  
 December 4, 1944, 6 pp.,  
 .05¢, Pr.32.5228:P71.

U. S. Office of Education



## CHAPTER IX

## PRINTING

## Booklet. -

Producing the School Yearbook,  
Copyrighted 1939, 12 pp.,  
producing the school year  
with the help of hints and  
useful suggestions, 1946  
Edition, Free.

A. B. Dick Company

Fundamentals of Mimeograph  
Stencil Duplication, 1947  
copyrighted, consists of  
fifteen explanatory lessons  
on mimeograph paper, Free.

" " " "

Printing Catalogue.

H. B. Rouse and Company

## Films. -

Modern Lithographer; treats in  
detail the techniques of  
lithographic artists and the  
processes of duplicating  
black and white and color.  
No. 230, 16 mm.

Encyclopedia Britannica Films,  
Incorporated

## Leaflets. -

Rouse Mitering Machines.

H. B. Rouse and Company

Rouse Line Gauges.

" " " " "

Rouse Slug Clipper.

" " " " "

Rouse Sticks.

" " " " "

Rouse Lead and Rule Cutters.

" " " " "

Rouse Vertical Miterer.

" " " " "

## Publications. -

Offset Pressman; 1945, 14 pp.,  
(War Department Occupational  
Bried), No. 73, W1.63:73, .05¢.

U. S. Office of Education

Lineotype Operator; (4-44.110)  
June 1947, 4pp., .05¢, L7.32:164.

" " " " "

## CHAPTER X

## WELDING

## Books. -

- Welding Instruction Book, 63 pp., elementary instructions for arc welding. Allmand Brothers
- Welding Lessons Book. Hobart Brothers
- Carbon Arc Book, 34 pp., one copy .40¢, five copies .38¢, ten copies .36¢, twenty-five copies .34¢. " "
- The Oxy-Acetylene Handbook, 600 pp., \$1.50, 33 1/3 percent discount for educational purposes. The Linde Air Products Company

## Booklets. -

- Precautions and Safe Practices in Welding and Cutting with Oxy-Acetylene Equipment, 56 pp., copyright 1939, published 1948. " " " "
- Guide to Better Welding, 32 pp., published 1947, No. 11471. Marquette Manufacturing Company, Incorporated
- From the Far Corners of the Earth, No. 506. Norton Company
- Portable Grinding, No. 1328. " "
- Charts. -
- Sparks Characteristics, No. 176. " "
- Cross Section of Oxweld Two-Stage Oxygen Regulator Type R-64. The Linde Air Products Company
- Cross Section of Injector Principle Welding Blowpipe Oxweld Type W-29. " " " "
- Cross Section of Injector Principle Welding Blowpipe Oxweld Type W-17. " " " "
- Cross Section of Cutting Blowpipe Oxweld Type C-31. " " " "



<u>Use Arc Welding Equipment Safely</u> , industrial safety charts, series J, No. 1-6, 1946, 11.1"x43.4", (Labor Standards Division), .05¢, L16.8:Sa 1/10.	U.S. Office of Education
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<u>The Inside of Arc Welding.</u>	General Electric Company
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<u>The Story of Arc Welding.</u>	" " "
<u>This is Resistance Welding.</u>	" " "
<u>Manual Cutting to a Line - Freehand</u> , OE-186, 21 minutes, sound, black and white, 16 mm.	U. S. Office of Education
<u>Manual Cutting a Bevel - Freehand</u> , OE-187, 13 minutes, black and white, sound, 16 mm.	" " " " "
<u>Manual Cutting a Shape - Freehand Guided</u> , OE-188, 16 minutes, black and white, sound, 16 mm.	" " " " "
<u>The Guided Band Test</u> , OE-189, 17 minutes, black and white, sound, 16 mm.	" " " " "
<u>Oxy-Acetylene Welding Light Metal</u> , OE-190, 21 minutes, black and white, sound, 16 mm.	" " " " "
<u>Brazing Carbide Tools</u> , OE-241, 18 minutes, black and white, sound, 16 mm.	" " " " "
<u>Brazing Flanges with Silver Solder</u> , OE-104, 18 minutes, black and white, sound, 16 mm.	" " " " "
<u>Hand Soldering</u> , OE-479, 20 minutes, black and white, sound, 16 mm.	" " " " "

<u>Spot Welding</u> , CE-295, 20 minutes, black and white, sound, 16 mm.	U. S. Office of Education
<u>Tinning and Solder Wiping</u> , CE-343, 26 minutes, black and white, sound, 16 mm.	" " " " "
<u>Testing for and Fixing Leaks in Oxy-Acetylene Welding Equipment</u> S-1, \$3.00.	The Linde Air Products Company
<u>Testing for and Fixing Leaks in Oxy-Acetylene Cutting Equipment</u> S-1A, \$3.00.	" " " "
<u>Safe Handling of Oxygen and Acety- lene Cylinders and Apparatus</u> , S-3, \$3.00.	" " " "
<u>Fire Prevention and Other Pre- cautions in Welding and Cutting</u> , S-4, \$3.00.	" " " "
(Set consisting of S-1, S-1A, S-3 and S-4 \$6.00).	
<u>Setting Up Oxy-Acetylene Welding Equipment</u> , W-1, \$3.00.	" " " "
<u>Setting Up Oxy-Acetylene Welding Equipment</u> , W-1A, \$3.00.	" " " "
<u>Lighting and Adjusting the Weld- ing Blowpipe</u> , W-2, \$3.00.	" " " "
<u>Lighting and Adjusting the Weld- ing Blowpipe</u> , W-2A, \$3.00.	" " " "
<u>Principles of Oxy-Acetylene Welding</u> , W-3, \$3.00.	" " " "
<u>Fundamentals of Oxy-Acetylene Fusion Welding of Steel</u> , Part I, W-4, \$3.00.	" " " "
<u>Fundamentals of Oxy-Acetylene Fusion Welding of Steel</u> , Part II, W-5, \$3.00.	" " " "
<u>Fundamentals of Oxy-Acetylene Fusion Welding of Steel</u> , Part III, W-6, \$3.00, (Set of W-1 to W-6 inclusive \$29.).	" " " "
<u>Setting Up Oxy-Acetylene Cutting Equipment</u> , C-1, \$3.00.	" " " "



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<u>Lighting and Adjusting the Cutting Blowpipe</u> , C-A, \$3.00.	" " " "
<u>Lighting and Adjusting the Cutting Blowpipe</u> , C-2A, Companion film to C-2, \$3.00.	" " " "
<u>Principles of Oxy-Acetylene Cutting</u> , C-3, \$3.00.	" " " "
<u>Manual Straight Line Cutting</u> , C-4, \$3.00, (C-1 to C-4 inclusive \$23.).	" " " "
<u>Modern Metalworking with the Oxy-Acetylene Flame</u> , No. 161, 2 reels, silent, black and white, 16 mm. and 35 mm.	U.S. Bureau of Mines
<u>A Story of Arc Welding</u> , No. X214, 24 minutes, sound, color, 16 mm.	" " " "
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<u>Silver Brazing Techniques, Part I</u> , MN-3549a, U. S. Navy Department, 1945, 19 minutes, sound, black and white, 16 mm.	" " " "
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<u>Folders.</u> -	
<u>Sparks Folder</u> , No. 1742.	Norton Company
<u>Manuals.</u> -	
<u>Flexarc Welding Manual for Farm and Shop</u> , .50¢, 105 pp.	Westinghouse Electric Corporation
<u>Instruction Manual for Marquette "AC" Arc Welders</u> , Models 261-261-C-262-262C, copyrighted 1946, 44 pp.	Marquette Manufacturing Company

<u>Operating and Welding Instruction Manual 180B and 180C Trindl Limited Input Type Arc Welders,</u> 9pp.	Trindl Products Limited			
<u>Operating and Welding Instruction Manual for Models 130B and 130C Trindl Limited Input Type Arc Welder.</u>	"	"	"	
<u>Operating and Welding Instruction Manual for Models 100B and 100C Trindl Limited Input Type Arc Welding.</u>	"	"	"	
Slidefilms. -				
Kit D, \$41.50. <u>Welding Aluminum Flat Sheets,</u> 64 pictures.	The Jam Handy Organization			
<u>Welding Aluminum Tubes with Sheets,</u> 49 pictures.	"	"	"	"
<u>Fuel and Oil Tank Repairs,</u> 29 pictures.	"	"	"	"
Kit E, \$41.50. <u>Oxy-Acetylene Cutting,</u> 34 pictures.	"	"	"	"
<u>Brazing and Silver Soldering,</u> 49 pictures.	"	"	"	"
<u>Qualifications Test for Welding,</u> 67 pictures.	"	"	"	"
Kit A, \$41.50. <u>An Introduction to Welding,</u> 68 pictures.	"	"	"	"
<u>Setting Up and Lighting the Welding Torch,</u> 58 pictures.	"	"	"	"
Kit B, \$41.50. <u>Welding Fast Repples,</u> 31 pictures.	"	"	"	"
<u>Flat Butt Welds,</u> 45 pictures.	"	"	"	"
Kit C, \$41.50. <u>Fillet Welds - Steel,</u> 75 pictures.	"	"	"	"
<u>Vertical Welds - Steel,</u> 38 pictures.	"	"	"	"
<u>Tube Welds - Steel,</u> 71 pictures.	"	"	"	"



Cluster Welds, 30 pictures.

Welding Stainless Steel, 34 pictures.

The Jam Handy Organization

" " " "

## CHAPTER XI

## WOODWORK

- Article. -
- The Story of Plywood Homes. Douglas Fir Plywood Association
- The Oldest Glue in It's Newest Form, free, James R. Withrow, 1945. Franklin Glue Company
- Genuine Hide Glue of Highest Quality. " " "
- Simplified Inlaying for Amateurs. John R. Wittsche Art Inlayers
- Hand Inlayers. " " " " "
- Veneering With Little Equipment. " " " " "
- Blueprints. -
- Sea-Skipper, \$4.50, (5 sheets), Length 22', beam 10'2", draft 2'. Casein Company of America
- Sea-Urchin, \$3.00, Inboard motor, plywood utility boat; length 17', beam 5' 6", draft 1' 3", (4 sheets). " " " "
- Plywood Dinghy for Rowing, Sailing, or Outboard Motoring; length 12', beam 4' 5 $\frac{1}{2}$ ", price \$2.50. " " " "
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- The Paint Industry; Reminiscences and Comments--by G.B. Heckel, 700 pp., 1931. American Paint Journal Company
- Symposium on Paint and Paint Materials, 150 pp., 1935. American Society for Testing Materials
- Safety in the World Today, \$1.40. Beckley-Cardy Company
- Buyers Guide, No. 82. " " "
- Saw Sense, 48 pp., free. E. C. Atkins and Company



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Bruce Publishing Company
- The Story of the United States  
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Columbia Rope Company
- Practical Furniture Finishing, by  
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- Lacquer and Synthetic Enamel  
Finishes, by R. C. Martin,  
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Douglas Fir Plywood Associ-  
ation
- Directions for Fitting Narrow  
Band and Small Circular Saws,  
24 pp.  
E. C. Atkins and Company
- National Varnish Resins, by T.B.  
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- Spray Painting, Industrial and  
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F. M. Crewdson.  
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551 pp., 1940.  
" " " " "
- Wood Finishes, Plain and Decorative,  
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- Varnish Making, by T.H. Barry and G.W. Dunster, 1943, 132 pp. Manual Arts Press
- Coloring, Finishing and Painting Wood, by A. C. Newell, 480 pp., 1940. National Paint Varnish and Lacquer Association, Incorporated.
- Paint Power, and How to Teach It, .50¢, Lonore Kent and Walter Shaw. " " "
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- 16 Plan Book, 10¢. " " " "
- How to Work with Tools and Wood, \$1.00. " " " "
- Tool Guide, 32 pp., .25¢. Stewart Research Laboratories
- National Paint Dictionary, by J. R. Stewart, 224 pp., 1942. The Borden Company
- How to Make Veneered Panels for the School and Home Workshop, by Herman Hjorth, copyrighted 1932, 7th printing, 95 pp., .75¢. The Carborundum Company
- Principles of Tool Room Grinding, copyright 1945. " " "
- Grinding Facts, copyrighted 1946. The Delta Manufacturing Company
- The Delta Story; an individual loose leaf book on all Delta equipment, 1944-45, 123 pp.

Projects, books and plans are published by the Delta Company at a very low cost.



<u>Key to Color Harmony.</u>	The Glidden Company
<u>Practical Woodwork Guide</u> , \$1.95.	The Home Craftsman
<u>Modern Kitchen Cabinets</u> , \$1.50.	" " "
<u>Ninety-Nine One Evening Projects</u> , \$1.95.	" " "
<u>Record Book</u> , \$1.00.	" " "
<u>Garden Furniture</u> , \$1.50.	" " "
<u>Forty Jig Saw Patterns</u> , \$3.00.	" " "
<u>Ponderosa Pine</u> , No. 21, its properties, uses, and grades, 76 pp., 8½ x 11.	Western Pine Association
<u>Idaho White Pine</u> , No. 22, its properties, uses, and grades, 64 pp., 8½ x 11.	" " "
<u>Larch</u> , No. 23, its properties, uses, and grades, 48 pp., 8½ x 11.	" " "
<u>Sugar Pine</u> , No. 30, its properties, uses, and grades, 56 pp., 8½ x 11.	" " "
 Booklets. -	
<u>Appalachian Hardwoods, America's Finest</u> , No. 15, 11pp.	Appalachian Hardwood Manu- facturers, Incorporated
<u>Lecture Course on Coated Abrasives and its Supplement on Wood- working.</u>	Behr-Manning Corporation
<u>Sandpaper, Its How and Why.</u>	" " "
<u>How To Sharpen</u> , detailed discussion on the correct sharpening abrasive.	" " "
<u>Coated Abrasives.</u>	Clover Manufacturing Company
<u>The Story of Manila Fibre.</u>	Columbian Rope Company
<u>Rope Knowledge for Riggers</u> , 48pp.	" " "
<u>ABC of Spray Painting Equipment.</u>	The DeVilbiss Company

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| <u>National Homes Foundation</u> , designed for Douglas Fir Plywood, copyrighted 1941.   | Douglas Fir Plywood Association             |
| <u>Douglas Fir Weldwood</u> , explains data on all types plywood with illustrated uses, 16 pp., 1948.  | " " " "                                     |
| <u>Display Signs with Douglas Fir Plywood</u> , 15 pp., free, discusses and illustrates all types of displays.   | " " " "                                     |
| <u>Douglas Fir Plywood in Review</u> , history, manufacture, and use of plywood.   | " " " "                                     |
| <u>Safety Rules for the Safe Operation of Power Woodworking Tools</u> , 14 pp., .05¢, very complete listings of safety rules on powered machines.  | Frank Paxton Lumber Company                 |
| <u>Properties, Selections, and Suitability of Woods for Woodworking</u> ; deals with all types of wood characteristics.  | Forest Products Laboratory                  |
| <u>Hardwoods of the South</u> ; deals with texture, planning, shaping, turning, bending, warping, cross grain, seasoning, splitting, nail and screw holding, gluing, odor and taste of Southern woods. | " " "                                       |
| <u>Proper Methods of Preparation and Application for Beautiful Wood Finishing of Interior and Exterior Woods</u> , very good booklet on finishes.  | General Finishes Sales and Services Company |
| <u>Facts on Preserving and Finishing of Beautiful Wood</u> ; the story of modern penetrating finishes.   | " " " "                                     |
| <u>Inside Industry</u> .   | Herbert Hall Foundation                     |
| <u>Vanguard Publication</u> .  | " " "                                       |
| <u>Technique of House Nailing</u> ; published by the U. S. Government Printing Office, 53 pp., November 1947, .20¢, detailed explanation of house construction with illustrations.                     | Housing and Home Finance Agency             |



<u>Huther Brothers, Firthing Tipped Saws</u> , descriptive information, 11 pp.	Huther Brothers
<u>Refinishing and Care of Furniture</u> , 8 pp., 1944.	Iowa State College of Agriculture and Mechanical Arts
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<u>Just Whistle</u> .	" " "
<u>Craftsmans Manual</u> .	" " "
<u>The Handbook on Painting</u> ; an excellent guide and reference for the painters, 90 pp., free, copyrighted 1946.	National Lead Company
<u>Blended Beauty for Your Home</u> ; home illustrations in color.	" " "
<u>Shop Safety</u> ; drawings and photographs illustrating general shop safety rules, 32 pp., .25¢.	National Safety Council
<u>Industrial Safety and Health Bibliography</u> ; alphabetic list of publications in the field of industrial safety, .50¢.	" " "
<u>Congress Transactions</u> , Vol. II, one to nine copies .50¢, ten or more .45¢, panel discussion on shop safety.	" " "
<u>Refinishing Furniture</u> , by V.A. McDuffie, 1945, 11 pp.	Oklahoma Agricultural and Mechanical College
<u>Proper Care and Installation of Oliver Band Saws</u> .	Oliver Machine Company
<u>Installation, Care, and Operation of Oliver Circular Saw Benches</u> , 36 pp.	" " "
<u>The Roger Book of Woodworking Shop Notes</u> ; discusses woodwork as a hobby along with correct selection and equipment, 16 pp., 1948.	Rogers Isinglas and Glue Company
<u>Auger Bits, How to Sharpen Them</u> .	Russell Jennings Manufacturing Company

<u>Stanley Rafter and Framing Squares</u> ; copyrighted 1946, 46 pp., free, uses and explanation of the steel square.	Stanley Tools
<u>Nature of Abrasives, Technical data of Sterling Abrasives.</u>	Sterling Tool Products Company
<u>Sanding Data Sheets.</u>	" " " "
<u>The ABC of Spray Painting Equipment.</u>	The De Vilbiss Company
<u>Sight Perfection.</u>	The Glidden Company
<u>How to Select, Use, and Care for Bits.</u>	The Irvin Auger Bit Company
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<u>Properties, Selection, and Suitability of Woods for Woodworking, 36 pp.</u>	U. S. Department of Agriculture
<u>Technique of House Nailing, 53 pp., November 1947, .20¢.</u>	" " " " "
<u>Casein Glues: Their Manufacture, Testing and Preparation, July 1939, No. R 280, 11 pp.</u>	" " " " "
<u>Vegetable (Starch) Glue; revised July 1938, No. R30, 12 pp.</u>	" " " " "
<u>Blood Albumin Glue; their manufacture, preparation, and application, revised July 1938, No. R281-2.</u>	" " " " "
<u>Drying and Conditioning Glued Joints, June 1935, No. R475, 5 pp.</u>	" " " " "
<u>Animal Glues: Their Manufacture, Testing and Preparation, revised October 1937, No. R492, 9 pp.</u>	" " " " "
<u>Wood Bending, October 1929, No. R966, 21 pp.</u>	" " " " "
<u>List of Publications on Logging, Manufacture, and Utilization of Timber, Lumber and other Wood Products, April 1948, No. R 790, 18 pp.</u>	" " " " "



<u>Synthetic-Resin Glues</u> ; revised January 1948, No. 1336, pp.21.	U. S. Department of Agri- culture
<u>Fire Retarding Coatings</u> , revised January 1946, No. R 1280, 11pp.	" " " " "
<u>Some Common Falacies About Wood</u> , September 1938, No. R1167, 6pp.	" " " " "
<u>Comparative Strength Properties of Wood</u> , .10¢, 3pp.	" " " " "
<u>Beautiful Wood for Beautiful Homes</u> ; illustrates plywood home scenes, copyrighted 1944, 14 pp.	United States Plywood Corpo- ration
<u>Let's Build a Wood Fence</u> ; 6" x 9", 16 pp., single copy free, others .05¢.	Western Pine Association
<u>Paneling Old or New Interiors With Real Pine</u> , No. 32.	" " "
<u>Beautiful Paneled Walls of Genuine White Pine</u> , No. 33.	" " "
<u>A Guide to Store and Shop Uses of Western Pine</u> , No. 39, 16 pp., 8½ x 11.	" " "
<u>Sugar Pine for Perfect Pattern</u> , 20 pp., No. 40.	" " "
<u>Idaho White Pine Ideal for Wood Patterns</u> , 20 pp., No. 41.	" " "
<u>The Story of Western Pines</u> ; beautifully illustrated and clearly written, free.	" " "
<u>Chestnut as a Core Wood</u> , No. 4, copyrighted 1930.	Appalachian Hardwood Manu- facturers
<u>Beech, Birch and Maple</u> , No. 12, by George C. Morbeck.	" " "
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Bulletin. -	
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<u>Atlas Heavy Duty Motors and Grinders, M G 3.</u>	Atlas Press Company
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<u>Use of Modern Coated Abrasives in Woodworking Industries, 5pp.,</u> by Thomas Trowbridge.	Behr-Manning Corporation
<u>Old Furniture Refinished, 15 pp.,</u> by G. E. Stratton.	Connecticut Agriculture State College
Series of Bulletins:	
1. <u>Planer.</u>	Crescent Machine Company
2. <u>Jointers.</u>	" " "
3. <u>Saw Tables.</u>	" " "
4. <u>Shaper.</u>	" " "
5. <u>Disc Sanders.</u>	" " "
6. <u>Mortiser.</u>	" " "
<u>The Modern Miracle in Wood.</u>	Douglas Fir Plywood Association
<u>Foley Automatic Saw Filer.</u>	Foley Manufacturing Company
<u>For Natural Beauty of Wood, Arm-R Brand.</u> Sealers, preservatives, finishes; a series of bulletins in a booklet form 'bound' which presents methods of preparation and application for beautiful wood finishing of interior and exterior woods, free.	General Finishes Sales and Service Company
<u>Refinishing Furniture and Floors;</u> 12 pp., by W. V. Dowdy.	Georgia University College Agriculture Extension Service
<u>White Wash and Cold Water Paints;</u> bulletin 304-E, 15 pp.	National Lime Association
<u>Refinishing Old Furniture;</u> 30 pp. by F. E. Wright, bulletin 295.	New York State College Agriculture Cornell Extension
<u>A Primer on Grinding Wheel Safety.</u>	Norton Company



<u>Information on 12 x 4 Thickness Planer.</u>	Parks Woodworking Machine Company
<u>Auger Bits, How to Sharpen and Care for Them;</u> explains sharpening and caring for auger bits.	Russell Jennings Manufacturing Company
<u>Harvesting the Timber Crop,</u> by E. W. Fobes, Mississippi Valley Lumberman, February 14, 1947.	U. S. Office of Education
<u>The Portable Band Sawmill and Selective Logging in the Loblolly Pine Forest of North Carolina,</u> by R. D. Garver and J. B. Cuno, U. S. Department Agriculture Technical Bulletin 337, 1932.	" " " " "
<u>Selective Logging in the Northern Hardwoods of the Lake States,</u> by Raphael Zon and R. D. Garver, U.S.D.A. Technical Bulletin 164, 1930.	" " " " "
<u>Properties of Western Hemlock and their Relation to Uses of the Wood,</u> by R. P.A. Johnson and W. H. Gibbons, U.S.D.A. Technical Bulletin 139, 1929.	" " " " "
<u>Building Construction, 1921 to 1938, 1940,</u> 114 pp., (Labor Statistics Bureau Bulletin 668), .15¢, L 2.3:668.	" " " " "
<u>Building Construction; 1940, 1941,</u> 140 pp., (Labor Statistic Bureau Bulletins 693). 20¢, L2.3:693.	" " " " "
<u>Building Construction; 1946, 1942,</u> 130 pp., (Labor Statistics Bureau Bulletin 713), .20¢, L2.3:713.	" " " " "
<u>Painting, Training for Painting, and Decorating Trade,</u> Vocational Education Bulletin 193, .45¢, 116.54/3:106, 183 pp.	" " " " "
<u>Building Construction, (Labor Statistics Bureau Bulletin 693)</u> L2.3.693, 140 pp., .20¢.	" " " " "

<u>Building Construction</u> , (Labor Statistics Bureau Bulletin 668), 114 pp., L2.3:668, .15¢.	U. S. Office of Education
<u>The Bluing of Wood</u> USDA 1500, .25¢.	U. S. Department of Agriculture
<u>The Kiln Drying of Southern Yellow Pine Lumber</u> , Tech. Bul. 165.	" " " " "
<u>Principles of Box and Crate Construction</u> , .55¢, Tech. Bul. 171.	" " " " "
<u>Properties of Western Larch and their Relation to Uses of the Wood</u> , Bulletin 285, .35¢.	" " " " "
<u>Strength-moisture Relations for Wood</u> , Tech. Bul. 282, .20¢.	" " " " "
<u>The Strength and Related Properties of Redwood</u> , .10¢, Tech. Bul, 305.	" " " " "
<u>Strength and Related Properties of Woods Grown in the United States</u> , .35¢, Tech. Bul.479.	" " " " "
MP-162, <u>Our Forests, What They Are and What They Mean To Us</u> ; .05¢, 38 pp.	U. S. Department of Agriculture Forest Service
MP-290, <u>The Work of the U. S. Forest Service</u> , .10¢, 32 pp.	" " " " "
MP-388, <u>Living and Forest Lands</u> , .10¢, 47 pp.	" " " " "
MP-395, <u>Forestry for 4-H Clubs</u> , .10¢, 50 pp.	" " " " "
MP-543, <u>Some Plain Facts About The Forests</u> , .10¢, 22pp.	" " " " "
MP-600, <u>Water and Our Forests</u> , .10¢, 29 pp.	" " " " "
FB-1492, <u>Arbor Day, Its Purpose and Observances</u> , .10¢, 33pp.	" " " " "
FB-1989, <u>Managing the Small Forest</u> , .20¢, 61 pp.	" " " " "



<u>G-6, Forest Fires and How You Can Prevent Them</u> , 12 pp.	U. S. Department of Agriculture				
<u>Synthetic Resin Glues</u> .	" "	" "	" "	" "	" "
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<u>Comparative Strength Properties of Wood</u> .	" "	" "	" "	" "	" "
<u>Products of American Forests</u> U.S.D.A. unnumbered publications, .20¢.	" "	" "	" "	" "	" "
<u>Machining and Related Characteristic of Southern Hardwoods</u> , U.S.D.A. Tech. Bul. 824, .25¢.	" "	" "	" "	" "	" "
<u>The Air Seasoning of Wood</u> , U.S.D.A. Tech. Bul. 174.	" "	" "	" "	" "	" "
<u>The Gluing of Wood</u> , U.S.D.A. Bul. 1500.	" "	" "	" "	" "	" "
<u>Identification of Furniture Woods</u> , U.S.D.A. miscellaneous circular 66, .25¢.	" "	" "	" "	" "	" "
<u>The Bearing Strength of Wood Under Bolts</u> , U.S.D.A. Tech. Bul. 332, .05¢.	" "	" "	" "	" "	" "
<u>Classification of House and Barn Paints</u> , U.S.D.A. Tech. Bul. 804, .10¢.	" "	" "	" "	" "	" "
<u>Famous Trees</u> , U.S.D.A. miscellaneous publication 295, .20¢.	" "	" "	" "	" "	" "
<u>Kiln Drying Handbook</u> , U.S.D.A. bulletin 1136, .30¢.	" "	" "	" "	" "	" "
<u>Selection of lumber for Farms and Home Building</u> , U.S.D.A. farm bulletin 1756, .05¢.	" "	" "	" "	" "	" "
<u>Why Some Wood Surfaces Hold Paint Longer Than Others</u> , U.S.D.A. leaflet 62, .05¢.	" "	" "	" "	" "	" "
<u>Wood Handbook</u> : basic information on wood as a material of construction with data for its use in design and specifications, U.S.D.A. unnumbered publication, .75¢.	" "	" "	" "	" "	" "

<u>TB-1 Shrinkage and Swelling of Ponderosa Pine</u> , 8½ x 11, 14pp., copy free, others .07¢.	Western Pine Association
<u>TB-2 Shrinkage and Swelling of Idaho White Pine</u> , 8½ x 11, 14pp., copy free, others .07¢.	" " "
<u>TB-3 Shrinkage and Swelling of Sugar Pine</u> , 8½ x 11, 14pp., copy free, others .07¢.	" " "
<u>American Western Pines and Their Uses</u> , 6 x 9, 34 pp., .10¢.	" " "
Catalogue. -	
Catalogue and job sheets with instructional material.	American Handicrafts Company
<u>Atlas 8" and 10" Tilt Arbor Bench Saws</u> , 8 pp., No.8-105.	Atlas Press Company
<u>FS-48, Atlas 10" Tilt Arbor Floor Saws</u> , 8 pp.	" " "
<u>WL-48, Atlas 12" Wood Lathe</u> , 8pp.	" " "
<u>Binks Spray and Finishing Equipment</u> , No. 951.	Binks Manufacturing Company
Descriptive catalogue of Boice-Crane Power Tools, 39 pp., free.	Boice-Crane Company
Catalogue composed of a series of bulletins on various planers and surfacers.	Buss Machine Works
Catalogue illustrates and advertises the Handee Tool.	Chicago Wheel and Manufacturing Company
General Catalogue.	C-Thru Ruler Company
<u>A Sales Manual on How to Sell.</u>	" " " "
<u>Tools and Attachments for De Walt Woodworking Machines</u> , free, 9 pp.	De Walt
<u>Douglas Fir Plywood</u> ; building suggestions on architectural scale, 11pp.	Douglas Fir Plywood Association
<u>Flexible Shaft Tools and Accessories</u> , 11 pp.	Foredom Electric Company



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| <u>Greenlee Tools for the Electrician, Carpenter, Plumber</u> , 47 pp., free.  | Greenlee Brothers and Company                           |
| <u>Catalogue No. 32</u> , 81 pp., free.  | " " " "   |
| <u>Huther Saws</u> ; 119 pp., copyrighted 1940.  | Huther Brothers Saw Manufacturing Company, Incorporated |
| <u>Portable Woodworking Machines</u> , catalogue, free.  | J. D. Wallace Company                                   |
| <u>Catalogue No. 46</u> , blueprints and castings price list.  | Lewis Machine Tool Company                              |
| <u>Lumberman Catalogue</u> ; presents a comprehensive program of accident prevention and loss reduction material, 44 pp., free.  | Lumbermens Mutual Casualty Company                      |
| <u>Mephisto Tools</u> . (Small wood and metal tools).  | Mephisto Tool Company, Incorporated                     |
| <u>Blueprints of any Miller Falls Tool</u> .   | Millers Falls Company                                   |
| <u>Yankee and Yankee Handyman Tools</u> .  | North Brothers Manufacturing Company                    |
| <u>Installation, Care, and Operation "Oliver" Circular Saw Benches</u> ; excellent information, 36 pp.   | Oliver Machinery Company                                |
| <u>Tool Catalogue</u> .  | Plomb Tool Company                                      |
| <u>Catalogue: School Shop Equipment</u> , free.  | Sheldon and Company, E. H.                              |
| <u>Catalogue</u> .   | Stanley Tools   |
| <u>Fundamentals of Shopwork</u> ; a basic course, 1942, 41 pp., (War Department Pre-induction Training Course 103), .10¢ W1.40:103.  | U. S. Office of Education                               |
| <u>Pre-induction Training in Vocational Schools, Vocational Departments, and Trade Schools</u> , 1943, 29 pp. (War Department Pre-induction training course 330), .10¢, W1 40:330. | " " " " "   |
| <u>Forestry</u> . No. Pr 32.5227:F 76/1-2, 11 pp., price list 33, .05¢.  | " " " " "   |

<u>Lumber and Lumber Products Industries; Including Sawmill, Planing Mill, Excelsior and General Woodworking jobs,</u> price list 33, occupations, 347 pp., \$1.25, L7.16:L97.	U. S. Office of Education
<u>Forestry, I 16.44:16,</u> .05¢, price list 33, 11 pp.	" " " " "
<u>Carver, hand 1 No. Pr32.5228:C</u> 25/1-2, 4pp., price list 33, .05¢.	
<u>Lumber for Schools;</u> price catalogue for lumber, free.	T. A. Foley Lumber Company
<u>Old Faithful Products;</u> beautifully illustrated catalogue of art mediums, 32 pp., copyrighted 1948, No. 343.	The American Crayon Company
Catalogue and booklets on portable power tools.	The Black and Decker Manufacturing Company
General production machine tool catalogue with accessories, copyrighted 1948.	Delta Manufacturing Company
<u>America's Foremost Colonial Furniture,</u> 48 pp.	The M.M. and A.J. Wheeler Company
Catalogue of precision machinery.	The Porter-Cable Machine Company
Charts. -	
Wall chart illustrating fitting instructions for hand saws, rip saws, and panel saws.	Atkins and Company
<u>Industries Woodworking Abrasives.</u> Mounted samples of abrasives with identification markings.	Behr-Manning Corporation
<u>Industries Oilstones.</u>	" " "
<u>The Columbian Knot Chart,</u> 1949.	Columbian Rope Company
<u>Hand Saw Chart for Crosscutting.</u>	Henry Disston and Sons, Incorporated
<u>File Chart.</u>	" " " " "
<u>Hack Saw Chart.</u>	" " " " "



<u>Do's and Dont's for Gluing.</u>	Le Page's Incorporated
<u>The Story of Dutch Boy</u> , a charted illustration of how white lead and red lead are manufactured.	National Lead Company
<u>The Genie's Map</u> , a large worlds map which has the location of all the principle materials used in the making of paints.	National Paint, Varnish, and Lacquer Association
<u>The Right Tool for the Right Training Yankee</u> , charts explaining the driving of screws correctly as well as the sizing of screws.	North Brothers Manufacturing Company
<u>Forging Operations on the Auger Bit.</u>	Russell Jennings Manufacturing Company
Charts of Operation on Auger Bits.	" " "
<u>The Casco Gluing Chart</u> , copyright 1947.	The Borden Company
<u>Use Woodcutting Band Saws Safely.</u> Industrial safety charts, series E, No. 1-6, 1945, Labor Standard Division, .05¢, L 16.8:Sal/5.	U. S. Office of Education
<u>Safe Practices Around Circular Saws.</u> Industrial Safety Charts, series B, No.1-6, 1945, Labor Standards Division, 11.1" x 43.3", .05¢, L 16.8:Sa 1/2.	" " " " "
<u>Effects of Windbreaks on Wind Velocity</u> , D-2.	U. S. Department of Agriculture
<u>How Fire Ruins Timber</u> , D-3.	" " " " "
<u>How the Tree Grows</u> , D-4.	" " " " "
<u>What We Get From Trees</u> , D-5.	" " " " "
<u>What We Get From Trees</u> , D-6.	" " " " "
<u>Safe Handling of Hammers.</u> Industrial safety charts, series P, Nos.1-6, 1946, Labor Standards Division. .05¢ L16.8:Sal/16.	U. S. Office of Education

<u>Use Screwdrivers Correctly.</u> Industrial Safety Charts series L, Nos. 1-6, 1946. Labor Standards Division, .05¢. L16.8:Sal/12.	U. S. Office of Education
Circulars. -	
<u>Refinishing Furniture;</u> 6pp., Extension Service Circular 245, by Mrs. I.A. Fenton.	Arkansas University College of Agriculture
<u>Rejuvenating Furniture;</u> by V. P. Moore, 12pp., 1945, Agriculture Extension Service Circular 80.	Florida University
<u>Selecting and Applying Paints;</u> by C. H. Van Vlack. Circular 261, 46 pp., 1939.	Iowa State College
<u>Value of Manual Arts;</u> Industrial Education Circular 27, 1727, 16 pp., .05¢. I 16.33:27.	U. S. Office of Education
<u>Cost of Producing White Pine Lumber in New England,</u> by V. S. Jenson, C.E. Behre, and A.O. Benson. Circular 557, 1940.	U. S. Department of Agri- culture
<u>Utilization of Black Locust,</u> by J. B. Cuno, circular 131, 1930.	" " " " "
<u>Helping the Shop Teacher Through Supervision;</u> 1922, 9 pp., Industrial Education Circular 10, .05¢. I 16.33:10.	" " " " "
<u>Selection, Installation, Finish, and Maintenance of Wood Floors for Dwellings.</u> Circular 489, .05¢.	" " " " "
<u>Knotty Lumber for Boxes;</u> Circular 105, .10¢.	" " " " "
<u>How Lumber is Graded,</u> Circular 64, .10¢.	" " " " "
<u>Kiln Certification,</u> Circular 21, .75¢.	" " " " "



<u>Furniture, Care Repair, Cleaning;</u> by C. J. Legrid, 8 pp., 1944.	Wisconsin University
<u>Index to Industrial Data Sheets,</u> -5¢.	National Safety Council <sup>1</sup>
Discussion. -	
<u>Protection through Selection;</u> a profitable five minutes dis- cussion on hardwood lumber specifications, by David White, copyright 1939.	Appalachian Hardwood Manu- facturers, Incorporated
Films. -	
<u>Elementary Manual Training.</u>	Brandon Films, Incorporated <sup>1</sup>
<u>Marionettes.</u> Construction and manipulation film.	" " "
<u>Elementary Bookbinding;</u> the art of making a simple book cover.	" " "
<u>Loom Weaving;</u> the entire process from treading to completion.	" " "
<u>Toys From Odds and Ends;</u> a detailed portrayal of the making of a toy wooly dog.	" " "
<u>The Miracle in Wood,</u> 35 minutes, color, sound, 16 mm.	Douglas Fir Plywood Associ- ation
<u>The Plywood Fleet,</u> 35 minutes, color, sound, 16 mm.	" " " "
<u>How to Finish Plywood,</u> 22 minutes, color, sound, 16 mm.	" " " "
<u>Prefabrication with Plywood,</u> 32 minutes, color, sound, 16 mm.	" " " "
<u>How to Sell Plywood,</u> 15 minutes, color, sound, 16 mm.	" " " "
<u>Farm Uses for Plywood,</u> 30 minutes, color, sound, 16 mm.	" " " "
<u>Furniture Making,</u> 1 reel, \$24.	Encyclopedia Britannica Films, Incorporated
<u>First Aid,</u> No. 179.	" " " "

<sup>1</sup>  
Brandon Films, time fifteen minutes, silent \$1.50, sound \$2.00.

<u>Problems of Housing</u> , No. 297; stresses standards for pleasant and healthful housing.	Encyclopedia Britannica Films, Incorporated
<u>Kentucky Pioneers</u> , No. 141; Weaving, Soap Making, Cooking, Carpentry, Cabin Construction etc.	" " "
<u>Furniture Craftsman</u> , No. 300; describes the role of designer and the crafts work.	" " "
<u>The Doorway to Happiness</u> , 16mm., all color, 30 minutes time, free.	Fir Door Institute
<u>Turning a Cylinder Between Centers</u> , OE-313, 17 minutes.	U. S. Office of Education <sup>2</sup>
<u>Turning Taper Work</u> , OE-314, 12 minutes.	" " " " "
<u>Turning Work on the Face Plate</u> , OE-315, 15 minutes.	" " " " "
<u>Turning Work in a Chuck</u> , OE-316, 15 minutes.	" " " " "
<u>Face Turning a Collar</u> , OE-217, 16 minutes.	" " " " "
<u>Jointing Edges and End Grain, 90 Degrees to a Face</u> , OE-302, 17 minutes.	" " " " "
<u>Beveling, Stop Chamfering, and Tapering Square Stock</u> , OE-303, 20 minutes.	" " " " "
<u>Face Planing Uneven Surfaces</u> , OE-304, 12 minutes.	" " " " "
<u>Jointing and Edge for Gluing- Installing Knives</u> , OE-305, 21 minutes.	" " " " "
<u>Rabbeting and Shaping an Edge on Straight Stock</u> , OE-318, 18 minutes.	" " " " "

<sup>2</sup>Office of Education films sound, black and white, 16 mm.



	U. S. Office of Education				
<u>Shaping After Templet and</u> <u>Shaping Curved Edges</u> , OE-319, 17 minutes.					
<u>Cutting Grooves with Circular</u> <u>Saw Blades</u> , OE-320, 22 minutes.	"	"	"	"	"
<u>Sanding Flat and Irregular</u> <u>Surfaces</u> , OE-312, 19 minutes.	"	"	"	"	"
<u>Sawing with Jig and Changing</u> <u>Band</u> , OE-309, 20 minutes.	"	"	"	"	"
<u>Sawing a Reverse Curve and</u> <u>a Bevel Reverse Curve</u> , OE-310, 18 minutes.	"	"	"	"	"
<u>Planing Rough Surfaces to</u> <u>Dimensions</u> , OE-301, 17 minutes.	"	"	"	"	"
<u>Ripping and Crosscutting</u> , OE-306, 19 minutes.	"	"	"	"	"
<u>Beveling, Mitering, Rabbeting,</u> <u>and Dadoing</u> , OE-307, 19 minutes.	"	"	"	"	"
<u>Cutting Tenons and Segments</u> , OE-308, 15 minutes.	"	"	"	"	"
<u>Cutting Cove Molding and a Core</u> <u>Box</u> , OE-311, 19 minutes.	"	"	"	"	"
<u>Making a One-Piece Flat Pattern</u> , OE-321, 22 minutes.	"	"	"	"	"
<u>Making a Pattern with a Vertical</u> <u>Core</u> , OE-322, 14 minutes.	"	"	"	"	"
<u>Making a Pattern with a Horizontal</u> <u>Core</u> , OE-323, 14 minutes.	"	"	"	"	"
<u>Making a Pattern with a Tail Print</u> , OE-324, 19 minutes.	"	"	"	"	"
<u>Making a Segmented Pattern</u> , OE-325, 22 minutes.	"	"	"	"	"
<u>Making a Pattern for Three Part</u> <u>Mold</u> , OE-326, 20 minutes.	"	"	"	"	"
<u>Making a Core Box for a Tail</u> <u>Print</u> , OE-350, 18 minutes.	"	"	"	"	"

<u>Making a Pattern for a Flanged Pipe Elbow</u> , OE-327, 18 minutes.	U. S. Office of Education
<u>Making a Matchboard Pattern</u> , OE-328, 21 minutes.	" " " " "
<u>Making a Core Box for a Vertical Core</u> , OE-329, 19 minutes.	" " " " "
<u>Making a Core Box for a Flanged Pipe Elbow</u> , OE-330, 21 minutes.	" " " " "
<u>The Lathe</u> , 15 minutes.	" " " " "
<u>Laying Out and Forming Plywood</u> , OE-285, 21 minutes.	" " " " "
<u>Patching Plywood</u> , OE-249, 26 minutes.	" " " " "
<u>Stop Forest Fires</u> , 10 minutes, rental fee \$1.50, an appeal to all to prevent forest fires.	The Princeton Film Center
<u>First Aid</u> , 10 minutes, rental \$2.00, sale price \$50.00, proper procedures for injured persons.	" " " "
<u>Safety in the School Shop</u> ; 12 minutes, rental \$1.50, sale \$22.88, typical shop accidents, shows how poor supervision or inadequate training may be the cause.	" " " "
<u>Harvesting the Western Pines</u> ; 30 minutes, sound, 16 or 35 mm., (Transportation charges only).	Western Pine Association
<u>Fabricating the Western Pines</u> ; 16 or 35 mm., sound, showing the fabrication of sash, frames, doors and screens and their installation, 35 minutes.	" " "
<u>Building a Home with Western Pine</u> , 25 minutes, sound, showing the construction and finishing of a modern, small house, 16 mm.	" " "



Folders. -

Atlas New 10" Tilt Arbor Floor Saw.

Atlas Press Company

Cascorez, Polyvinyl Resin Glue.

Casein Company of America

Casein Glue Powdered Cold Water Mix.

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Cascophen.

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Casco Flexible Cement.

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Cascanite.

" " " "

Safe Tin, Paint and Labor, Casco Wall Size.

" " " "

What Waterproofing Really Means.

Columbian Rope Company

Columbian Nylon Rope.

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How to Uncoil Columbian Tape-Marked Pure Mania Rope.

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The Care and Treatment of Your Rugs.

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Flexible Shaft Machine.

Craftsman Supply House

Plywood on the Farm.

Douglas Fir Plywood Association

Industrial Uses for Douglas Fir Plywood, 12 pp.

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Folders on Foley Filers, Setters and Retooters.

Foley Manufacturing Company

Brick Hammers.

Heller Brothers

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Rasps.

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Super Duty American Pattern Files.

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Band-Saws for Wood-Metal and Fibre.

Huther Brothers

Huther Brothers Firthite Folder.

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La Page's Glue and Other Adhesives.

La Page's, Incorporated

<u>Glue Facts.</u>	La Page's, Incorporated
<u>P5-2, Facts About Ponderosa Pine.</u>	Western Pine Association <sup>3</sup>
<u>P5-3, Facts about Sugar Pine.</u>	" " "
<u>P5-4, Facts about Idaho White Pine.</u>	" " "
<u>P5-6, Facts About White Fir.</u>	" " "
<u>P5-7, Facts About Engelmann Spruce.</u>	" " "
No. 412, <u>A.S.C. Exhibit Folder</u> , 4 x 9", 6 pp., single copy free, .02¢ each over one copy.	" " "
No. 407, <u>Treatment For Finishing Knotty Pine Paneled Walls</u> , 8½ x 11", 4 pp., single copy free, .02½¢ each over one copy.	" " "
Form No. R-48, <u>Heller Rotary Files Hand Cut and Ground From Solid Types</u> , copyrighted 1947, 7 pp.	Heller Brothers Company
Form No. R-48 <u>Axe.</u>	" " "
<u>Heller Nail Hammers</u> , Form No. ST.44.	" " "
Handbooks. -	
<u>The Home Mechanics Handbook</u> , <u>Painting, and Decorating</u> <u>Section</u> , by D. J. Di Bernado.	D. Van Nostrand Company, Incorporated
<u>Plywood Handbook for Lumber Dealers</u> , 24 pp.	Douglas Fir Plywood Associ- ation
<u>Handbook on Painting.</u>	John T. Lewis and Brothers Company
<u>Glue Handbook</u> ; for Craftsmen, concerning the history, manufacture, and use of hide glue, 63 pp., free.	Keystone Glue Company

<sup>3</sup> Western Pine Association, single copies free, 8½ x 11", 4 pp.,  
½¢ each over one copy.



<u>The Handbook on Painting.</u> (Revised annually).	National Lead Company
<u>American Logging and Sawmill Safety Code.</u> B.S. Bureau of Standards Handbook, Ser.5, 1924, Paper .40¢, Cloth.60¢.	U. S. Office of Education
<u>Wood Handbook</u> ; basic, information on wood as a material of construction with data for its use in design and specifications, U.S.D.A. unnumbered publication .75¢.	U. S. Department of Agri- culture
Instruction Sheets. -	
<u>How to Splice Columbian Pure Manila Rope.</u>	Columbian Rope Company
<u>Recommendations for The Use of Master Flake Glue.</u>	The Kindt-Collins Company
<u>Open Front Colonial Bookshelf,</u> No. 21.	Western Pine Association
<u>How to Make a Pair of Western Pine Clogs for shower or beach use.</u> No. 22.	" " "
<u>Table and Chairs for Tiny Tots,</u> No. 19.	" " "
<u>A Sportsman's Rod and Gun Cabinet,</u> No. 20.	" " "
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<u>How to Make "Laddie", A Scottie Doorstop or Garden Stick, No. 2.</u>	Western Pine Association
<u>How to Make a Unique Cigarette Box, No. 3</u>	" " "
<u>How to Make a Pipe Rack with Western Pines, No. 4.</u>	" " "
<u>How to Make a Knotty Pine Coffee Table, No. 5.</u>	" " "
<u>Evolution of a Scottie, No. 6.</u>	" " "
<u>Pine Pints Hobby Horse Swing, No. 7.</u>	" " "
<u>How to Make a Knotty Pine Chest, No. 8.</u>	" " "
Leaflets. -	
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<u>"Pony" on C Clamp.</u>	" " "
<u>Set of Handee Hobbies.</u>	Chicago Wheel and Manufacturing Company
<u>Cutter Heads.</u>	Huther Brothers
<u>Huther Brothers Dado Head.</u>	" "
<u>Grooving Saws and Cutters.</u>	" "
<u>Directions for Filing and Fitting Groovers and Circular Saws.</u>	" "
<u>Huther Brothers Panel Raisers.</u>	" "
<u>Band Saw Filing Machine, No. 3.</u>	" "
<u>Jointing Attachment for Circular Saws.</u>	" "
<u>Cascemite, Urea-Resin Glue.</u>	The Borden Company
<u>Casco Flexible Cement.</u>	" " "
<u>Cascophen.</u>	" " "
<u>Casein Glue.</u>	" " " "



<u>Cascorez Polvuiryl Resin Glue.</u>	The Borden Company
<u>Save Time, Paint and Labor</u> (Casco Wall Size).	" " "
<u>Easi-Bild Full Size Patterns.</u>	" " "
<u>The Casco Gluing Chart.</u>	" " "
<u>Preventing Cracks in New Wood Floors,</u> leaflet 56.	U. S. Department of Agriculture
<u>Why Some Wood Surfaces Hold Paint longer than others;</u> U.S.D.A. leaflet 62, .05¢.	" " " " "
Manuals. -	
<u>Lathe Operation and Machinists Tables,</u> indexed for quick reference to all lathe operations, 272 pp., \$1.00.	Atlas Press Company
<u>Manual No. 46.</u>	Buss Machine Works
<u>The Axe Manual of Peter McLaren,</u> 84 pp., .25¢.	Fayette R. Plumb, Incorporated
<u>Instruction Manual.</u>	Fellowcrafters, Incorporated
<u>Disston Saw, Tool and File Manual.</u> 47 pp.	Henry Disston and Sons, Incorporated
<u>Disston Saw, Tool and Files,</u> 40 pp.	" " " "
<u>Craftsman's Manual.</u>	Monite Waterproof Glue Company
<u>Glue of the Ancients.</u>	" " " "
<u>Just Whistle.</u>	" " " "
<u>Safety Education in the School Shop,</u> 64 pp., 1-9 copies .60¢, 10-99 copies .55¢.	National Safety Council
<u>How to Plan a School Workshop;</u> Illustrative book with discussion on shop planning, \$1.00.	The Delta Manufacturing Company
<u>Paint Manual, with Particular Reference to Federal Specifications,</u> \$1.00, 165pp., by P.H. Walker and E.F. Hickson.	U. S. National Bureau of Standards

Plan Book for the Boy Builder,  
No. 24.

Western Pine Association

Wood Carving for Pleasure, 24pp.,  
5 x 7", No. 35.

" " "

Wood Turning in the Home Workshop,  
20 pp., 5 x 7", No. 36.

" " "

The Story of Western Pines, 64 pp.,  
No. 47, 5 $\frac{1}{2}$  x 7 $\frac{1}{2}$ ", single copies  
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Notes. -

Ln-8, Prevention of Sap Stain in  
Western Pines, 7 pp.

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Ln-10, What Causes Decay in Wood,  
2 pp., .02¢.

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4 pp., .02¢, 8 $\frac{1}{2}$  x 11", one  
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Outlines. -

O-31, The Well-Kept Farm Woods,  
H. S. level.

U. S. Department of Agriculture  
Forest Service

O-34, Conservation of Natural  
Resources High School Level.

" " " " "

Pamphlets. -

Appalachian Hardwoods, 11 pp.,  
Brochure 15.

Appalachian Hardwood Manu-  
facturing Incorporated

Protection Through Selection,  
Brochure 2, 4th Ed., 1932,  
a profitable five minute  
discussion on hardwood  
lumber specifications by  
David G. White, copyrighted  
1930.

" " "



<u>Appalachian Hardwoods, for Interior Trim and Flooring</u> <u>5a</u> , 7 pp. 1	Appalachian Hardwood Manufacturing Incorporated
<u>Chestnut as a Core Wood</u> , copyrighted 1930.	" " "
<u>Brochure Four</u> , Fourth Edition.	" " "
Brochure Twelve, <u>Appalachian Birch and Maple</u> .	" " "
Brochure Thirteen, <u>Appalachian Yellow Poplar For Fine - Painted or Enameled Woodwork</u> .	" " "
<u>Douglas Fir Plywood</u> ; manufacturing and supervision.	Douglas Fir Plywood Association
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<u>Economy in Western Pines</u> ; 8pp. No. 403, 8 $\frac{1}{2}$ x 11, single copy free, over one .03¢.	Western Pine Association
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Publication. -	
<u>Products of American Forests</u> , by J.A. Hall and T.J. Mosley, U.S.D.A. unnumbered publication 1939, revised August 1946, .20¢.	U. S. Office of Education
<u>Properties, Selection and Suitability of Woods for Woodworking</u> , by D.G. Coleman, Industrial Arts and Vocational Education, December 1940 - February 1941.	" " " " "
<u>Sidelights on Southern Hardwoods</u> , by E. M. Davis, Southern Lumberman, December 15, 1934.	" " " " "
<u>Some Books on Wood</u> ; report R-399, revised October 1946.	" " " " "
<u>Some Common Fallacies About Wood</u> , report R-1167, 1938.	" " " " "
<u>Some Reference Books on Domestic and Foreign Woods</u> ; report R-1479, March 1945,	" " " " "
<u>Texture of Southern Hardwoods and Locality of Growth</u> , by E.M. Davis, Southern Lumberman, December 15, 1933.	" " " " "

<u>Glue and Plywood.</u>	U. S. Office of Education
<u>Growth, Structure, and Identification of Wood.</u>	" " " " "
<u>Mechanical Properties of Wood.</u>	" " " " "
<u>Lumber Consumption Trends in the Furniture Industry;</u> R.P.A. Johnson, Hardwood Record, January 1939.	" " " " "
<u>Possible Uses of Improved Woods and Wood-base Plastics in the Furniture Industry,</u> by A. J. Stamm. Wood Products, January 1945.	" " " " "
<u>Judging the Quality of Sugar Maple,</u> by B. H. Paul and N. A. Norton. Wood Products, March 1936.	" " " " "
<u>Variations in the Wood of Yellow-Poplar from the Southern Appalachian Region,</u> by B.H.Paul and N.A. Norton. Southern Lumberman, March 15, 1937.	" " " " "
<u>How Growth Affects Quality in Hickory and Ash,</u> by B.H. Paul. Hardwood Record, January 10, 1925.	" " " " "
<u>Quality of Appalachian Hickory,</u> by B. H. Paul. Southern Lumberman, April 6, 1929.	" " " " "
<u>Overcup Oak for Lumbers,</u> by R. D. Garver, Southern Lumberman, March 1935.	" " " " "
<u>Swamp Chestnut Oak for Lumber,</u> by R. D. Garver, Southern Lumberman, August 15, 1935.	" " " " "
<u>Water Oak for Lumber,</u> by R. D. Garver, Southern Lumberman, June 15, 1934.	" " " " "
<u>Fabrication of Wood Products at Small Sawmills and Woodworking Plants,</u> by Fredrick B. Malcolm, report R-1700, December 1947.	" " " " "
<u>Latest Developments in Small Sawmills,</u> by F. B. Malcolm, Wood, May 1947.	" " " " "



<u>Machining of Madrone, California</u> <u>Laurel, Tanbark and Chinguapin,</u> by E. M. Davis, California Lumber Merchant, December 17, 1947.	U.S. Office of Education				
<u>Operating Small Sawmills in War-</u> <u>time,</u> by C. J. Telford, U.S.D.A. miscellaneous publication 509, 1943.	" "	"	"	"	"
<u>Woodworking Machines,</u> by E.M.Davis, report R-1706, March 1948.	" "	"	"	"	"
<u>Woods and Mill Studies of the</u> <u>Manufacture of Birch, Beech and</u> <u>Maple Lumbers in the Northeast,</u> report R-1217, December 1939.	" "	"	"	"	"
<u>The Density of Southern Pine; its</u> significance in terms of properties and grades, by E. M. Davis, Southern Lumberman, December 17, 1927.	" "	"	"	"	"
<u>Lumber Grades vs. Site Quality of</u> <u>Second-growth Douglas-Fir,</u> by B. H. Paul, West Coast Lumberman, November 1947, report R-1688.	" "	"	"	"	"
<u>Saw-log Grades for Hardwoods -</u> <u>Central States Studies,</u> report D-1699, November 1947.	" "	"	"	"	"
<u>Why Should Hickory be Graded on</u> <u>Color Specifications?</u> by H.B. Paul, Woodworking Industries, April, 1925.	" "	"	"	"	"
<u>Properties and Uses of Some of the</u> <u>More Important Woods Grown in</u> <u>Brazil,</u> by E. E. Horn, report R-83, 1918.	" "	"	"	"	"
<u>Manufacture of Veneers,</u> report R-285, 1939.	" "	"	"	"	"
<u>Waste in Veneer Manufacture,</u> by E. M. Davis, report R-1493.	" "	"	"	"	"
<u>Seasoning of Wood,</u> use of wood in aircraft construction.	" "	"	"	"	"
<u>Wood Finishing Subjects.</u>	" "	"	"	"	"
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<u>Second-growth Southern Hardwood Timber</u> , by B. H. Paul, Southern Lumberman, December 15, 1936, report R-1120.	"	"	"	"	"
<u>Wood, A Material with a Future</u> , by F. J. Champion, Wisconsin Carpenter and Builder, Convention number, 1936, report R-1119.	"	"	"	"	"
<u>Flexible Logging Equipment Aids Utilization</u> , West Coast Lumberman, September 1, 1926.	"	"	"	"	"
<u>Use and Adaptation of Power Saws for Pulpwood Harvesting</u> , by J. Harry Rich, Southern Lumberman, December 15, 1944.	"	"	"	"	"
<u>Relation of Tree Size to Output for Southern Hardwood</u> , by R. D. Garver and R. H. Miller, Southern Lumberman, February 15, 1934.	"	"	"	"	"
<u>Building Contractor, Light Construction</u> , 18 pp., 1946, (War Department Brief) .05¢, W 1. 63:101.	"	"	"	"	"
<u>Job Descriptions for Lumber and Lumber Products Industries, Including Sawmill, Planning mill, Excelsior and General Woodworking Jobs</u> , 347 pp., 1939, \$1.25, L 7.16:L 97.	"	"	"	"	"
<u>Painter 1 (5-27.010)</u> June 1947, 5 pp., .05¢, L7.32:P 16.	"	"	"	"	"
<u>Painter, Aircraft</u> , September 21, 1945, reprint 1947, 5 pp., .05¢, Pr 32.5228:P 16/1-2.	"	"	"	"	"
<u>Painter, Construction</u> No. 1.63:74, price list 33, 12 pp., .05¢.	"	"	"	"	"
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<u>Patternmaker 2</u> (5-17.248) 1944, 6 pp., .05¢, Fr32.5228:P27/3.	U.S. Office of Education
<u>Upholsterer 2</u> (4-45.720) 1947, 6 pp., L 7.32:Up3, .05¢.	" " " " "
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<u>Carpenter No. 1.63:82</u> , 14 pp., price list 33, .05¢.	" " " " "
No. FS 5.123:145, <u>Light Frame House Construction</u> , technical information for use of the apprentice and journeyman carpenter, reprint 1940, Vocational Division Bulletin 145, .45¢, 214 pp.	" " " " "
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<u>Cabinetmaker 1</u> (4-32.100) price list 33, 5 pp., .05¢, L 7.32: C11.	" " " " "
<u>Forest Trees and Forest Regions of the United States</u> , U. S. D. A. publication 217, .10¢.	U.S. Department of Agri- culture
<u>Knots in Second-growth Pine and the Desirability of Pruning</u> , miscellaneous publication 307, .10¢.	" " " " "
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<u>The Air Seasoning of Wood</u> , U.S.D.A. technical bulletin 174, .35¢.	" " " " "
<u>The Forest Products Laboratory: A Brief Account of Its Works and Aims</u> , U.S.D.A. miscellaneous publication 306, .15¢.	" " " " "

## Reports. -

Important Factors in Gluing with Animal Glue, No. R-869, 2 pp.

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<u>Strength of Southern Pine and Douglas Fir Compared, No. 119.</u>	"	"	"
<u>Properties of Ordinary Wood Compared with Plywood, No. 131.</u>	"	"	"
<u>The Crate Corner, No. 134.</u>	"	"	"
<u>Occurrence and Removal of Glue Stains, No. 146.</u>	"	"	"
<u>"Virgin Growth" and "Second Growth", No. 153.</u>	"	"	"
<u>Copper Salts Improve Casein Glue, No. 170.</u>	"	"	"
<u>Red Hickory as Strong as White Hickory, No. 171.</u>	"	"	"
<u>Hardwood and Softwood Drying Schedule, No. 175.</u>	"	"	"
<u>Comparative Strength of Air-dried and Kiln-dried Wood, No. 180.</u>	"	"	"
<u>Coatings for Minimizing Changes in the Moisture Content of Wood, No. 181.</u>	"	"	"
<u>Coatings that Prevent End Checks, No. 186.</u>	"	"	"
<u>Differences Between Heartwood and Sapwood, No. 189.</u>	"	"	"

<u>Starved Glue Joints</u> , No. 193.	Forest Products Laboratory
<u>Some Books and Pamphlets on Paints, Painting, and Wood Finishing</u> , No. 195.	" " "
<u>Short Notes on Wood</u> , a series of short explanatory articles on the various woods.	Yates-American Machine Company
Work Sheets. -	
<u>Removing Old Finish from Furniture, Pianos, Cabinets, etc.</u> , No. 1.	General Finishes Sales and Service Company
<u>Piano Refinishing</u> , No. 2.	" " " "
<u>Furniture Refinishing, Antique- Modern</u> , removing old finish, No. 3.	" " " "
<u>Finishing Floors</u> , No. 4.	" " " "
Reproducing - " <u>Short Talks on Wood</u> " card series available to teachers.	Yates American Machine Company



## CHAPTER XII

## CRAFTS

## Archery. -

How to Make Modern Archery Tackle, by Tracy L. Stalker, deals with all phases of archery and archery equipment. Excellent on the making of bows, bowstrings, arrows, etc. Copyrighted 1948, 34 pp., \$1.00.

The Borden Company

## Aviation. -

Aviation Education, a guide for teachers. Link Aviation Devices, Incorporated

The Link Trainer as a Classroom Demonstrator. " " " "

The Link Between Your Classroom and the Air Age. " " " "

Aviation Education, a series of unit studies in aviation, 75 pp., copyrighted 1946. " " " "

Controllog, manual of all the leading control line kits, .10¢. Polks Model Craft Hobbies

Mainliner Meals, slidefilm of thirty frames. Explains airline meal preparation. United Air Lines

Air Transportation Jobs and You, slidefilm of thirty-five frames. Describes jobs in air transportation. " " "

Global Concepts and the Age of Flight, slidefilm. Explains map projections, global geography and global flight. " " "

Of Men and Wings, traces the development of coast to coast air mail and passenger service from 1920 to 1947. Sound, 18 minutes, 16 mm. " " "

<u>Highway to Hawaii</u> , by air across the Pacific to Honolulu. Sound, 28 minutes, color, 16 mm.	United Air Lines
<u>Yellowstone and the Grand Tetons</u> , by air to the Yellowstone. Sound, 30 minutes, color, 16mm.	" " "
<u>Coast to Coast Geography From the Air</u> , slidefilm of 53 frames, shows aerial patterns of the United States.	" " "
<u>Research Engineering, Aircraft Developments, Airports</u> , slidefilm of 24 frames, introduces airline research engineering and interprets the flying wing.	" " "
<u>Meteorology and Navigation</u> , slidefilm of 24 frames, develops an understanding of meteorology and navigation in relation to aviation.	" " "
Foundry. -	
<u>Standard Foundry Equipment Catalogue</u> , 56 pp.	Sterling Wheelbarrow Company
Lapidary. -	
<u>Manufacturers of Diamonds and Lapidary Faceting Tools</u> , facts about diamonds, exhibition, ordering etc.	Princeton Tool Company
<u>Norton Abrasives for the Lapidary</u> .	Norton Company
Leather. -	
<u>The Story of Leather</u> , deals with the manufacture of high grade Chrome Calf and Side Leather, copyrighted 1935, 80 pp.	The Ohio Leather Company
<u>Handicraft Supplies</u> , chiefly leather.	J. C. Larson Company
<u>Osborn's Leather Craft</u> , catalogue 66 pp.	Osborn Brothers Supply Company
<u>Leather Craft Tools</u> , folder.	The William Schollhorn Company



- Leather Work, film illustrating cutting and designing a coin key purse. Silent, 15 minutes \$1.50; Sound, 10 minutes \$2.00, 16 mm. Brandon Films Incorporated
- Leather Making, two-reel film \$60. less 10 per cent for educational interests. Library Films Incorporated
- Lets Make Toys, two-reel colored film, \$150. " " "
- Leather, black and white film, 800 feet, 16mm., free for the cost of transportation. The Ohio Leather Company
- Leather, one reel, silent, \$24. Encyclopedia Britannica Films Incorporated
- Handbook of Practical Leather Projects, 28 pp. Horton Handicraft Company
- Plumbing. -
- A manual of specifications and roughing in dimensions covering Josam Drainage Products, \$1.00. Josam Manufacturing Company
- Reedcraft. -
- Supply Catalogue. American Reedcraft Company
- Ship Modeling. -
- Polk's Shipyard, 1946 edition, 160 pp., .35¢. Polks Model Craft Hobbies
- Silk Screen.-
- Silk Screen Supply Catalog. Silk Screen Supplies Incorporated
- Soap Sculpture. -
- A manual on soap sculpture describing and giving instructions with illustrations. The National Soap Sculpture Committee

## CHAPTER XIII

## SUMMARY AND CONCLUSIONS

This study involves four main objectives which are: (1) to annotate industrial arts teaching aids, (2) to determine the extent of the educational departments in the industrial firms, (3) to determine the free and low cost teaching aids available for the industrial arts teacher, and (4) to educate the teacher and pupil as to the materials available and thus educate them for better buying.

The study included well over six hundred firms and organizations in the United States and a few in England. The summary and conclusions are grouped under the following:

1. The annotated listing is included within this thesis. From time to time more may be added or deleted as required.
2. Prices for all the aids, if known, are listed with the aid, otherwise the aid is probably free.
3. General use of this list with application for the aids from the various concerns, will acquaint each teacher and each pupil with the various firms and their products.
4. The following page shows a chart which illustrates the growth of the educational departments as such, in firms throughout the country. If one is to remember that only a few years ago firms had no interest in education, one can readily see that education in industry is on the increase.



TABULATED GROWTH OF EDUCATIONAL DEPARTMENTS IN INDUSTRY

---

- 655 Letters mailed to firms throughout the United States.
- 364 Answers received.
- 16 Letters unclaimed.
- 62 Firms with no educational department; produce no aids.
- 63 Firms have an active educational department with such title.
- 131 Firms with no educational department, but cooperate with educational programs and produce helpful material.
- 58 Firms with an apprenticeship program and or very active sales department which would correspond to an educational department.

## BIBLIOGRAPHY

Harry Gunderson, An Annotated and Evaluated List of Industrial Teaching Aids for Metal-Working Classes, Master of Arts thesis, Indiana University, Bloomington, Indiana, 1940.

Industrial Arts and Vocational Education, 1946, 1947, 1948, The Bruce Publishing Company.

School Shop, (April 1947). Educational Press Association of America, Ann Arbor, Michigan.

The Kit-A-Log (1946 Fall Semester). Powers Publishing Company, 333 N. Michigan Avenue, Chicago 1, Illinois.

Teaching Aids For the Asking, Homer J. Smith, Associate Professor of Industrial Education, University of Minnesota. The University of Minnesota Press, Minneapolis, 1929.

Vocational Instructor's School Shop Handbook. Issue No.1, Part I, (Spring 1947). Vocational Arts Publishing Company, Incorporated, Box 909, Grand Central Annex, New York 17, N.Y.



June 4, 1947

Gentlemen:

One of the major educational needs among Industrial Arts Teachers is a record of the various sources of material and teaching aids. Therefore, I have selected as a project the acquisition and classification of materials made available by the various manufacturers and dealers in school shop supplies.

A number of companies have contributed very materially through their educational program to the industrial teaching procedures. The contribution made by your company in this respect has been recognized, and I therefore am contacting you for more detailed information regarding your program as well as your future plans for the extension of such a program.

Will you assist me in this thesis study by answering the following questions and mailing me any samples of literature or instructional material which you feel will give assistance to the industrial teacher?

1. Do you maintain an Educational Department?
2. Who is the Director of the Educational Department?
3. Does he work with school authorities and teachers of Industrial Arts in the conduct of their programs?
4. Do you prepare and circulate instructional material such as tool and equipment charts, teaching aids, job sheets, safety rules etc.?

Your cooperation in conducting this study will be extremely helpful to the shop teachers and will be greatly appreciated by me personally.

Yours very truly,

Russell Blowers  
Industrial Arts Instructor

RB:lr

APPENDIX B



## APPENDIX B

- A. B. Dick Company  
720 West Jackson Boulevard  
Chicago 6, Illinois
- Abrasive Machine Tool Co.  
East Providence 14, R.I.
- Adjustable Clamp Company  
417 North Ashland Avenue  
Chicago 22, Illinois
- Air-Speed Tool Company  
Los Angeles 44, California
- Alcoa Library  
801 Gulf Building  
Pittsburgh 19, Pennsylvania
- Allied Radio Corporation  
833 West Jackson Boulevard  
Chicago 7, Illinois
- Allmand Brothers  
Holdrege, Nebraska
- Aluminum Company of America  
801 Gulf Building  
Pittsburgh 19, Pennsylvania
- American Art Clay Company  
4717 West Sixteenth Street  
Indianapolis 8, Indiana
- American Handicrafts Company, Inc.  
45-49 So. Harrison Street  
East Orange, New Jersey
- American Iron and Steel Institute  
350 5th Avenue  
New York, N.Y.
- American Lead Pencil Company  
Hoboken, New Jersey
- American Paint Journal Company  
St. Louis, Missouri
- American Phenolic Corporation  
1830 So. Fifty-Fourth Avenue  
Chicago Cicero 50, Illinois
- American Saw Mill Machinery Co.  
Hackettstown, New Jersey
- American Society for Testing  
Materials  
Philadelphia, Pennsylvania
- American Steel and Tin Plate Co.  
Frick Building  
Pittsburgh, Pennsylvania
- American Type Founders Sales  
Corporation  
200 Elmora Avenue  
Elizabeth B, New Jersey
- American Welding Society  
33 West 39th Street  
New York 18, N.Y.
- AMMCO Tools, Incorporated  
Commonwealth Avenue  
North Chicago, Illinois
- Appalachian Hardwood Manu-  
facturer, Incorporated  
414 Walnut Street  
Cincinnati 2, Ohio
- Armour and Company  
1355 West 31st. Street  
Chicago 9, Illinois
- Armstrong Brothers Tool Co.  
301 N. Francisco Avenue  
Chicago 12, Illinois
- Atlantic Saw Manufacturing Co.  
157 Brewery Street  
New Haven 11, Connecticut
- Atlas Press Company  
Kalamazoo 13D, Michigan
- Bakelite Corporation  
300 Madison Avenue  
New York 17, N.Y.
- Barrett Equipment Company  
21st and Cass Streets  
St. Louis 6, Missouri

Bausch and Lomb Optical Co.  
Rochester 2, New York

Beckley Cardy Company  
1632 Indiana Avenue  
Chicago, Illinois

Beebe Brothers Manufacturers  
2724 Sixth Avenue So.  
Seattle 4, Washington

Behr-Manning Corporation  
Division of Norton Company  
Troy, New York

Berkeley Models, Inc.  
140 Greenpoint Avenue  
Brooklyn 22, New York

Berton Plastics, Inc.  
New York 10, N.Y.

B  
Bethlehem Steel Company  
Bethlehem, Pennsylvania

Black Drill Company  
1400 East 22nd Street  
Cleveland 17, Ohio

Blackhawk Manufacturing Co.  
Milwaukee 1, Wisconsin

Bodnar Industries, Incorporated  
19 Railroad Avenue  
New Rochelle, New York

Boice Crane Company  
930 W. Central Avenue  
Toledo, Ohio

Brandon Films, Incorporated  
1600 Broadway  
New York 19, N.Y.

Brown and Sharpe Manufacturing  
Company  
Providence 1, R.I.

Bruce Publishing Company  
Milwaukee, Wisconsin

Buck Brothers, Incorporated  
Millbury, Massachusetts

Buss Machine Works  
Holland, Michigan

Canedy-Otto Manufacturing Co.  
Chicago Heights, Illinois

Carboloy Company, Incorporated  
Detroit 32, Michigan

Carmen - Bronson Company  
165 East Third Street  
Mount Vernon, N. Y.

Casein Company of America  
350 Madison Avenue  
New York 17, N.Y.

Castle Films, Incorporated  
30 Rockefeller Plaza  
New York 20, N.Y.

Catalin Corporation of America  
One Park Avenue  
New York 16, N.Y.

Champion Blower and Forge Co.  
Lancaster, Pennsylvania

Champion DeArment Tool Co.  
Meadeville, Pennsylvania

Charles Beseler Company  
60 Badger Avenue  
Newark 8, New Jersey

Chas. D. Briddell, Incorporated  
Crisfield, Maryland

Chicago Wheel and Manufacturing  
Company  
1101 West Monroe Street  
Chicago 7, Illinois

C. Howard Hunt Pen Company  
Camden, New Jersey

Cincinnati Milling and Grinding  
Machines, Incorporated  
Cincinnati 9, Ohio

Clark Equipment Company  
Buchanan, Michigan



Clarks Sanding Machine Co.  
Muskegon, Michigan

Clemson Brothers, Incorporated  
Middletown, New York

Clover Manufacturing Company  
Norwalk, Connecticut

Columbian Rope Company  
309 Genesee Street  
Auburn, New York

Concord Radio Corporation  
901 W. Jackson Boulevard  
Chicago 7, Illinois

Copper and Brass Research Asso.  
420 Lexington Avenue  
New York, N.Y.

Covel Manufacturing Company  
Benton Harbor, Michigan

Craft Shop  
124 Ford Avenue  
Wyandotte, Michigan

Craftsman Wood Service Company  
Chicago, Illinois

Crescent Machine Company  
Leetonia, Ohio

C-Thru Ruler Company  
823 Windsor Street  
Hartford, Connecticut

Dake Engine Company  
Grand Haven, Michigan

David McKay Company  
Philadelphia, Pennsylvania

De Vry Corporation  
1111 Armitage Avenue  
Chicago 14, Illinois

De Walt Products Corporation  
Lancaster, Pennsylvania

Ditto Incorporated  
Harrison at Oakley Boulevard  
Chicago 12, Illinois

Douglas Fir Plywood Association  
Tacoma 2, Washington

Douglas Home Craftsman  
Stamford, Connecticut

D. T. Davis Company  
Lexington 34, Kentucky

D. Van Nostrand Company, Incorporated  
New York, New York

Eagle Pencil Company, Incorporated  
14th Street and Avenue C  
New York, N.Y.

Eagle Picher Sales Company  
Cincinnati 1, Ohio

Easi-Bild Pattern Company  
Pleasantville, New York

Eberhard Faber Pencil Company  
37 Greenpoint Avenue  
Brooklyn 22, New York

E. B. Films, Incorporated  
Chicago 6, Illinois

E. C. Atkins and Company  
402 South Illinois Street  
Indianapolis 9, Indiana

E. C. Knudson  
40 South Clinton Street  
Chicago 6, Illinois

Educational Materials, Incorporated  
46 East 11th Street  
New York 3, New York

Edwards and Company, Incorporated  
Norwalk, Connecticut

E. H. Sheldon and Company  
Muskegon, Michigan

E. I. Du Pont De Nemours and Co.  
Wilmington 98, Delaware

Ekstrom, Carlson and Company  
Rockford, Illinois

E. L. Stemmler Company  
Manorville, L.I., New York

Enco Manufacturing Company  
4522-24 W. Fullerton Avenue  
Chicago 39, Illinois

Encyclopaedia Britannica Films,  
Incorporated  
20 N. Wacker Drive  
Chicago 6, Illinois

Engineering Manufacturing Co.  
Sheboygan, Wisconsin

Ernest Bann Limited  
London, England

Etna Twist Drill Company  
Taunton, Massachusetts

Ettco Tool Company, Inc.  
594 Johnson Avenue  
Brooklyn 6, New York

Eugene Dietzgen Company  
2425 N. Sheffield Avenue  
Chicago 14, Illinois

Faraday Electric Corporation  
Adrian, Michigan

Fayette R. Plumb Inc.  
4837 James Street  
Philadelphia 37, Pennsylvania

Federal Products Corporation  
1144 Eddy Street  
Providence 1, R. I.

Federal Security Agency  
Office of Education  
Washington 25, D. C.

Fellowcrafters, Incorporated  
13 Clarendon Street  
Boston 16, Massachusetts

Foley Manufacturing Co.,  
Incorporated  
30 Second Street N.E.  
Minneapolis 13, Minnesota

F. J. Drake and Company  
Chicago, Illinois

Foredom Flexible Shaft Tools  
27 Park Place  
New York, N.Y.

Forest Products Laboratory  
Forest Service  
Madison, Wisconsin

Frank Paxton Lumber Company  
First and Kansas Avenue  
Kansas City 3, Kansas

F. Weber Company  
1220 Buttonwood Street  
Philadelphia 23, Pennsylvania

General Cement Manufacturing Co.  
919 Taylor Avenue  
Rockford, Illinois

General Electric Company  
1 Plastics Avenue  
Pittsfield, Massachusetts

General Electric Company  
1 River Road  
Schenectady 5, New York

General Finishes Sales and  
Service Company  
1548 W. Bruce Street  
Milwaukee, Wisconsin

General Pencil Company  
67-73 Fleet Street  
Jersey City, New Jersey

George Scherr Company, Incorporated  
200 Lafayette Street  
New York 12, New York

G. H. Tennant Company  
25-30 North Second Street  
Minneapolis 11, Minnesota

Government Printing Office  
Washington 25, D. C.

Grand Specialties Company  
3101-35 W. Grand Avenue  
Chicago 22, Illinois

Gray-Mills Company  
1948 Ridge Avenue  
Evanston, Illinois

Greenfield Tap and Die Corporation  
Greenfield, Massachusetts

Greenlee Brothers and Company  
Rockford, Illinois



- Handy and Harman  
82 Fulton Street  
New York 7, N. Y.
- H. B. Rouse and Company  
2214-16 North Wayne Avenue  
Chicago 14, Illinois
- Heller Brothers Company  
Newark, New Jersey
- Henry Disston and Sons, Inc.  
Philadelphia 35, Pennsylvania
- Henry L. Hanson Company  
25 Union Street  
Worcester 8, Massachusetts
- Henry Paulson and Company  
37 S. Wabash Avenue  
Chicago 3, Illinois
- Herbert Hall Foundation  
99 Lincoln Park  
Newark 2, New Jersey
- Higgins Ink Company, Inc.  
271 Ninth Street  
Brooklyn 15, New York
- Hobart Brothers  
Hobart Square  
Troy, Ohio
- Huther Brothers Saw  
Manufacturing Company, Inc.  
1290 University Avenue  
Rochester 7, New York
- Housing and House Finance  
Agency  
Washington, D. C.
- Illuminating Engineering  
Society  
51 Madison Avenue  
New York 10, New York
- Indianhead Archery and  
Manufacturing Company  
Box 303  
Lima, Ohio
- Interlake Chemical Corp.  
Union Commerce Building  
Cleveland 14, Ohio
- International Acetylene  
Association  
30 East 42nd Street  
New York 17, New York
- Iowa State College of Agri-  
culture and Mechanical Arts  
Agriculture Extension Service  
Ames, Iowa
- J. B. Lippincott  
Philadelphia, Pennsylvania
- J. D. Wallace and Company  
134 S. California Avenue  
Chicago 12, Illinois
- J. G. Blount Company  
Everett 49, Massachusetts
- J. H. Williams and Company  
Buffalo 7, New York
- J. Lee Hackett Machinery Company  
1961 East Milwaukee Avenue  
Detroit 11, Michigan
- J. L. Lucas and Son, Incorporated  
Bridgeport 5, Connecticut
- John R. Wittsche Art Inlayers  
41 Westfield Avenue  
Hayward, California
- Johnson Gas Appliance Company  
Cedar Rapids, Iowa
- John T. Lewis and Brothers Co.  
Widener Building  
Chestnut and Juniper Streets  
Philadelphia 7, Pennsylvania
- Jordanoff Corporation  
595 Madison Avenue  
New York 22, New York
- Joseph Weidenhoff, Incorporated  
4340-58 Roosevelt Road  
Chicago 24, Illinois
- Kastar, Incorporated  
200-208 Lincoln Avenue  
New York 54, New York
- K-D Manufacturing Company  
Lancaster, Pennsylvania

- Kearney and Trecker Corporation  
Milwaukee 14, Wisconsin
- Kerkling and Company  
Box 311  
Burbank, California
- Keystone Reamer and Tool Co.  
Millersburg, Pennsylvania
- Keystone View Company  
Meadville, Pennsylvania
- Knowledge Builders  
625 Madison Avenue  
New York, New York
- K-O-Lee Company  
Aberdeen, South Dakota
- Lapidary Equipment Company  
Incorporated  
1545 West 49th Street  
Seattle 7, Washington
- L. C. Whiffen Company,  
Incorporated  
622 W. Wisconsin Avenue  
Milwaukee 3, Wisconsin
- Leeds and Northrup Company  
4901 Stenton Avenue  
Philadelphia 44, Pennsylvania
- Leonard Hill Limited  
London, England
- Lewis Machine Tool Company  
P.O. Box 116 Station "A"  
Los Angeles 31, California
- Library Films Incorporated  
25 West 45th Street  
New York 19, New York
- Link Aviation Devices, Inc.  
Binghamton, New York
- Machinery Sales Company  
1274 Folsom Street  
San Francisco 3, California
- Macklin Company  
Jackson, Michigan
- Magnolia Metal Company  
18 West Jersey Street  
Elizabeth 4, New Jersey
- Mall Tool Company  
7740 South Chicago Avenue  
Chicago 19, Illinois
- Manual Arts Press  
Peoria, Illinois
- Marquette Manufacturing Company,  
Incorporated  
307 E. Hennepin Avenue  
Minneapolis 14, Minnesota
- Maxim Chemical Company, Incorporated  
44 Cliff Street  
New York 7, New York
- McCrosky Tool Corporation  
Meadville, Pennsylvania
- Metal Crafts Supply Company  
10 Thomas Street  
Providence, Rhode Island
- Metal Goods Corporation  
5239 Brown Avenue  
St. Louis 15, Missouri
- Mid-West Abrasive Company  
510 South Washington Street  
Owosso, Michigan
- Miehle Printing Press and Manu-  
facturing Company  
14th St. and S. Damen Avenue  
Chicago 8, Illinois
- Millers Falls Company  
Greenfield, Massachusetts
- Minnesota Mining and Manufactur-  
ing Company  
900 Fauquier Avenue  
St. Paul, Minnesota
- M.K.M. Hill  
529 Perine Street  
Elmira, New York
- Monite Waterproof Glue Company  
Minneapolis, Minnesota



- Morse Twist Drill and Machine Company  
New Bedford, Massachusetts
- Motion Picture Section  
Office of Public Information  
Executive Office of the Secretary  
Navy Department  
Washington 25, D. C.
- Motor Book Department  
250 W. 55th Street  
New York 19, New York
- National Adhesives  
270 Madison Avenue  
New York 16, N.Y.
- National Association of Manufacturers  
14 West 49th Street  
New York 20, New York
- National Lead Company  
11 Broadway  
New York, New York
- National Lime Association  
Washington, D. C.
- National Paint, Varnish and Lacquer Association, Inc.  
1500 Rhode Island Avenue, N.W.  
Washington 5, D. C.
- National Machine Tool Builders Association  
Cleveland, Ohio
- National Safety Council  
20 North Wacker Drive  
Chicago 6, Illinois
- National Soap Sculpture Committee  
160 Fifth Avenue  
New York 10, New York
- National Twist Drill and Tool Co.  
Rochester, Michigan
- New York State College of Agriculture, Cornell Extension  
Ithaca, New York
- Niagara Machine and Tool Works  
637-697 Northland Avenue  
Buffalo 11, New York
- Nicholson File Company  
Providence 1, Rhode Island
- North Brothers Manufacturing Co.  
Lehigh Avenue and American St.  
Philadelphia 33, Pennsylvania
- Norton Company  
Worcester 6, Massachusetts
- Ohmite Manufacturing Company  
4835 Flournoy Street  
Chicago 44, Illinois
- Oklahoma Agriculture and Mechanical College  
Stillwater, Oklahoma
- Oliver Machine Company  
Grand Rapids, Michigan
- Parks Woodworking Machine Company  
Cincinnati, Ohio
- Patterson Brothers  
15 Park Row  
New York 7, New York
- Plaskon Division  
Toledo, Ohio
- Plax Corporation  
Hartford, Connecticut
- Plomb Tool Company  
Box 3519 Terminal Annex  
Los Angeles 54, California
- Polks Model Craft Hobbies  
314 5th Avenue  
New York 1, New York
- Pratt and Whitney  
West Hartford 1, Connecticut
- Princeton Tool Company  
146 John Street  
New York 7, New York
- Racine Tool and Machine Company  
Racine, Wisconsin

- Reinhold Publishing Corporation  
New York, New York
- Related Arts Service  
511 5th Avenue  
New York 17, New York
- Revere Copper and Brass Inc.  
Rome, New York  
and,  
5851 West Jefferson Avenue  
Detroit 9, Michigan
- R. Hoe and Company, Inc.  
910 E. 138th Street  
New York 54, New York
- Rivett Lathe and Grinder Inc.  
Brighton 35, Massachusetts
- Rogers Isinglas and Glue Co.  
Gloucester, Massachusetts
- Rohm and Hass Company  
Washington Square  
Philadelphia 5, Pennsylvania
- Russell Jennings Manufacturing Co.  
Chester, Connecticut
- Sales Service Machine Tool Co.,  
Incorporated  
2363 University Avenue  
St. Paul 4, Minnesota
- Sargent and Company  
New Haven, Connecticut
- Schweizer Aircraft Corporation  
County Airport  
Elmire, New York
- Scovill Manufacturing Co.  
P.O. Box 1820  
Waterbury 91, Conn.
- Sheldon Machine Co., Inc.  
4258 N. Knox Avenue  
Chicago 41, Illinois
- Simonds Saw and Steel Co.  
470 Main Street  
Fitchburg, Massachusetts
- SKF Industries, Inc.  
Front Street & Erie Ave.  
Philadelphia 34, Pa.
- Snap-On Tools Corporation  
8070 28th Avenue  
Kenosha, Wisconsin
- Society for Visual Education,  
Incorporated  
100 East Ohio Street  
Chicago 11, Illinois
- South Bend Lathe Works  
South Bend 22, Indiana
- Speedway Manufacturing Company  
1834 South 52nd Avenue  
Chicago 50, Illinois
- Stewart Research Laboratories  
Washington, D.C.
- Sterling Tool Products Company  
363 East Ohio Street  
Chicago 11, Illinois
- Sylvania Electric Products, Inc.  
500 Fifth Avenue  
New York 18, N.Y.
- Syntron Company  
Homer City, Pennsylvania
- Stanley Tool Works  
New Britain, Connecticut
- Sta-Warm Electric Company  
Ravenna, Ohio
- Sterling Tool Products Company  
363 East Ohio Street  
Chicago 11, Ohio
- Sterling Wheelbarrow Company  
Milwaukee 14, Wisconsin
- Sunbeam Corporation  
4433 W. Ogden Avenue  
Chicago 23, Illinois
- T. A. Foley Lumber Company, Inc.  
Paris, Illinois
- The American Crayon Company  
Sandusky, Ohio
- The American Forestry Association  
919 17th Street N.W.  
Washington 6, D.C.



The A. P. Parts Corporation  
A. P. Building  
Toledo, Ohio

The Arts Cooperative Service,  
Incorporated  
340 Amsterdam Avenue  
New York 24, N.Y.

The Black and Decker Manu-  
facturing Company  
Towson, Maryland

The Borden Company  
350 Madison Avenue  
New York 17, N.Y.

The Bridgeport Hardware Manu-  
facturing Corporation  
Bridgeport 5, Connecticut

The Bristol Brass Corporation  
Bristol, Connecticut

The Bruce Publishing Company  
540 North Milwaukee Street  
Milwaukee 1, Wisconsin

The Capewell Manufacturing Co.  
Hartford 2, Connecticut

The Carborundum Company  
Niagara Falls, New York

The Carpenter Steel Company  
Reading, Pennsylvania

The Castolite Company  
Kenilworth, Illinois

The C. F. Pease Company  
2601 West Irving Park Road  
Chicago 18, Illinois

The Challenge Machinery Co.  
Grand Haven, Michigan

The Cincinnati Shaper Co.  
Cincinnati, Ohio

The Cincinnati Tool Co.  
Norwood, Cincinnati 12,  
Ohio

The Cleveland Steel Tool Co.  
660 East 82nd Street  
Cleveland 8, Ohio

The Cleveland Twist Drill Co.  
1242 E. 49th Street  
Cleveland 14, Ohio

The Columbian Vise and Manu-  
facturing Company  
9021 Bessemer Avenue  
Cleveland 4, Ohio

The Crescent Machine Company  
Leetonia, Ohio

The Cushman Chuck Company  
Hartford 2, Connecticut

The Dallett Company  
Mascher at Lippincott Street  
Philadelphia 33, Pennsylvania

The Delta Manufacturing Division  
600 East Vienna Avenue  
Milwaukee 1, Wisconsin

The De Vilbiss Company  
Toledo 1, Ohio

The DoALL Company  
1301 Washington Avenue So.  
Minneapolis 4, Minnesota  
and,  
254 North Laurel Avenue  
Des Plaines, Illinois

The Dumore Company  
Fourteenth and Racine Streets  
Racine, Wisconsin

The Electric Storage Battery Co.  
Allegheny Avenue and 19th St.  
Philadelphia 32, Pennsylvania

The Esterbrook Pen Company  
Camden, New Jersey

The Franklin Glue Company  
Columbus, Ohio

The Glidden Company  
Cleveland 2, Ohio

- The Handcrafters  
Waupun, Wisconsin
- The Hartford Clamp Company, Inc.  
E. Hartford, Connecticut
- The Home Craftsman  
115 Worth Street  
New York 13, New York
- The Hydraulic Press Manufacturing Company  
Mount Gilead, Ohio
- The Irwin Auger Bit Company  
Wilmington, Ohio
- The Jam Handy Organization  
2821 East Grand Boulevard  
Detroit 11, Michigan
- The Jacobs Manufacturing Co.  
Hartford 2, Connecticut
- The Kindt-Collins Company  
Cleveland 11, Ohio
- The Lincoln Electric Co.  
12818 Coit Road  
Cleveland 1, Ohio
- The Linde Air Products Co.  
30 East 42nd Street  
New York 17, N. Y.
- The Lodge and Shipley Machine Tool Company  
Cincinnati 25, Ohio
- The L.S. Starrett Company  
Athol, Massachusetts
- The Lufkin Rule Company  
Saginaw, Michigan
- The Nolvex File Company  
10329 Detroit Avenue  
Cleveland, Ohio
- The Ohio Leather Company  
1052 North State Street  
Girard, Ohio
- The Ohio Machine Tool Co.  
Kenton, Ohio
- The O-P Craft Co., Incorporated  
Sandusky, Ohio
- The Parks Woodworking Machine Co.  
Cincinnati 23, Ohio
- The Peck, Stow and Wilcox Co.  
Southington, Connecticut
- The Porter-Cable Machine Company  
Syracuse 8, New York
- The Princeton Film Center  
Princeton, New Jersey
- The R. K. LeBlond Machine Tool Co.  
Cincinnati 8, Ohio
- The Sebastian Lathe Company  
Cincinnati 1, Ohio
- The Skinner Chuck Company  
New Britain, Connecticut
- The Smith and Mills Company  
2889 Spring Grove Avenue  
Cincinnati 25, Ohio
- The Standard Electric Time Company  
Springfield 2, Massachusetts
- The Stanley Tool Works  
New Britain, Connecticut
- The Taft-Peirce Manufacturing Co.  
Woonsocket, Rhode Island
- The Tannewitz Works  
301-325 Front Ave., N. W.  
Grand Rapids 4, Michigan
- The Thompson Grinder Company  
Springfield, Ohio
- The Vlcek Tool Company  
Cleveland, Ohio
- The Wade Tool Company  
49-50 River Street
- The Walton Company  
94 Allyn Street  
Hartford 3, Connecticut
- The William Schollhorn Company  
New Haven 9, Connecticut



The Wiremold Company  
Hartford 10, Connecticut

Trifam Manufacturing Co.  
1211 Madison Street  
Maywood, Illinois

Trindl Products Limited  
17 East 23rd Street  
Chicago 16, Illinois

Tyler Manufacturing Co.  
938 Pico Boulevard  
Santa Monica, California

Underwriters' Laboratories, Inc.  
Chicago 11, Illinois

United Air Lines  
United Air Lines Building  
Chicago 38, Illinois

U. S. Bureau of Mines  
Superintendent of Documents  
Washington 25, D. C.

U. S. Department of Agriculture  
Forest Service  
Forest Products Laboratory  
Madison 5, Wisconsin  
and,  
Washington 25, D. C.

U. S. Government Printing Office  
Superintendent of Documents  
Washington 25, D. C.

U. S. Navy Department  
Superintendent of Documents  
Washington 25, D. C.

U. S. Office of Education  
Superintendent of Documents  
Washington 25, D. C.

United States Plywood Corporation  
Weldwood Building  
55 West 44th Street  
New York 18, New York

United World Films, Incorporated  
New York 22, New York

Universal Handicrafts Service, Inc.  
1267 Sixth Avenue  
New York, N.Y.

Universal Scientific Company, Inc.  
1102 Shelby Street  
Vincennes, Indiana

V and E Manufacturing Company  
Post Office Box 950  
Pasadena 20, California

Victor Saw Works, Incorporated  
Middletown, New York

Vocational Industries Corporation  
2400 South Cottage  
Salem, Oregon

Vreeland Manufacturing Company  
2020 S.W. Jefferson Street  
Portland 1, Oregon

Walker-Turner Company, Incorporated  
Plainfield, New Jersey

Warner and Swasey Company  
5701 Carnegie Avenue  
Cleveland 3, Ohio

Wells Tool Company  
106 Hope Street  
Greenfield, Massachusetts

Western Pine Association  
Yeon Building  
Portland 4, Oregon

Westinghouse Electric Corporation  
306 Fourth Avenue  
P.O. Box 1017  
Pittsburgh 30, Pennsylvania

Weston Electrical Instrument Corp.  
Newark 5, New Jersey

Wildberg Brothers Smelting and  
Refining Company  
742 Market Street  
San Francisco 2, California

William Dixon Incorporated  
Newark, New Jersey

Yates-American Machine Company  
32-34-36 E. Kinney Street  
Newark 1, New Jersey

York Machinery & Supply Company  
York, Pennsylvania