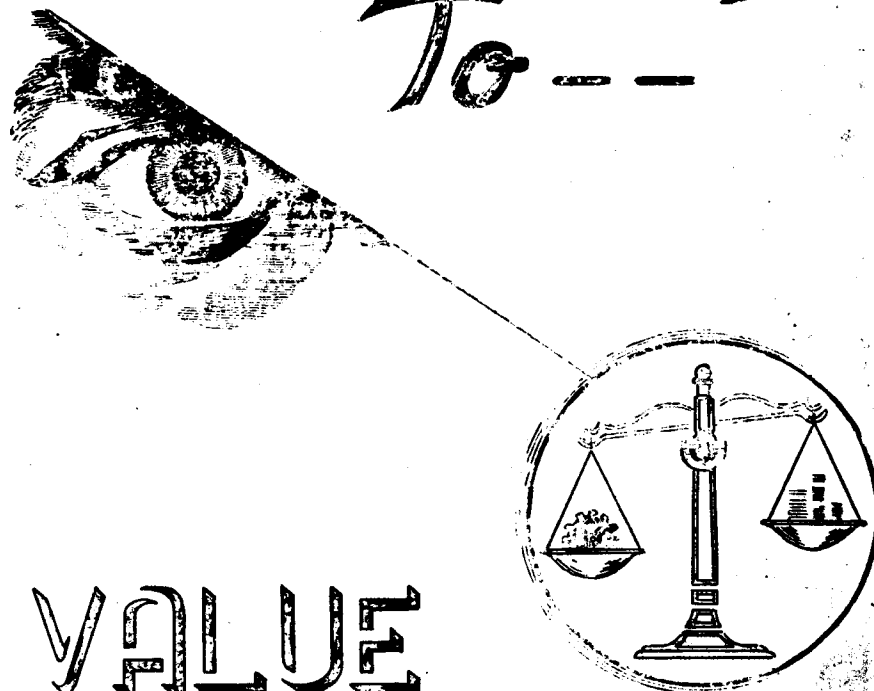
52-9

# With An Eye To--



# VALUE ANALYSIS

Davenport Works

Nov. 19, 1952

# VALUE ANALYSIS

## DAVENPORT WORKS

NOVEMBER 19, 1952

A.L. GRAHAM
-WORKS MANAGER-

GORDON WELLS
-CHAIRMAN-

-COMMITTEE-

Jack Donnelly

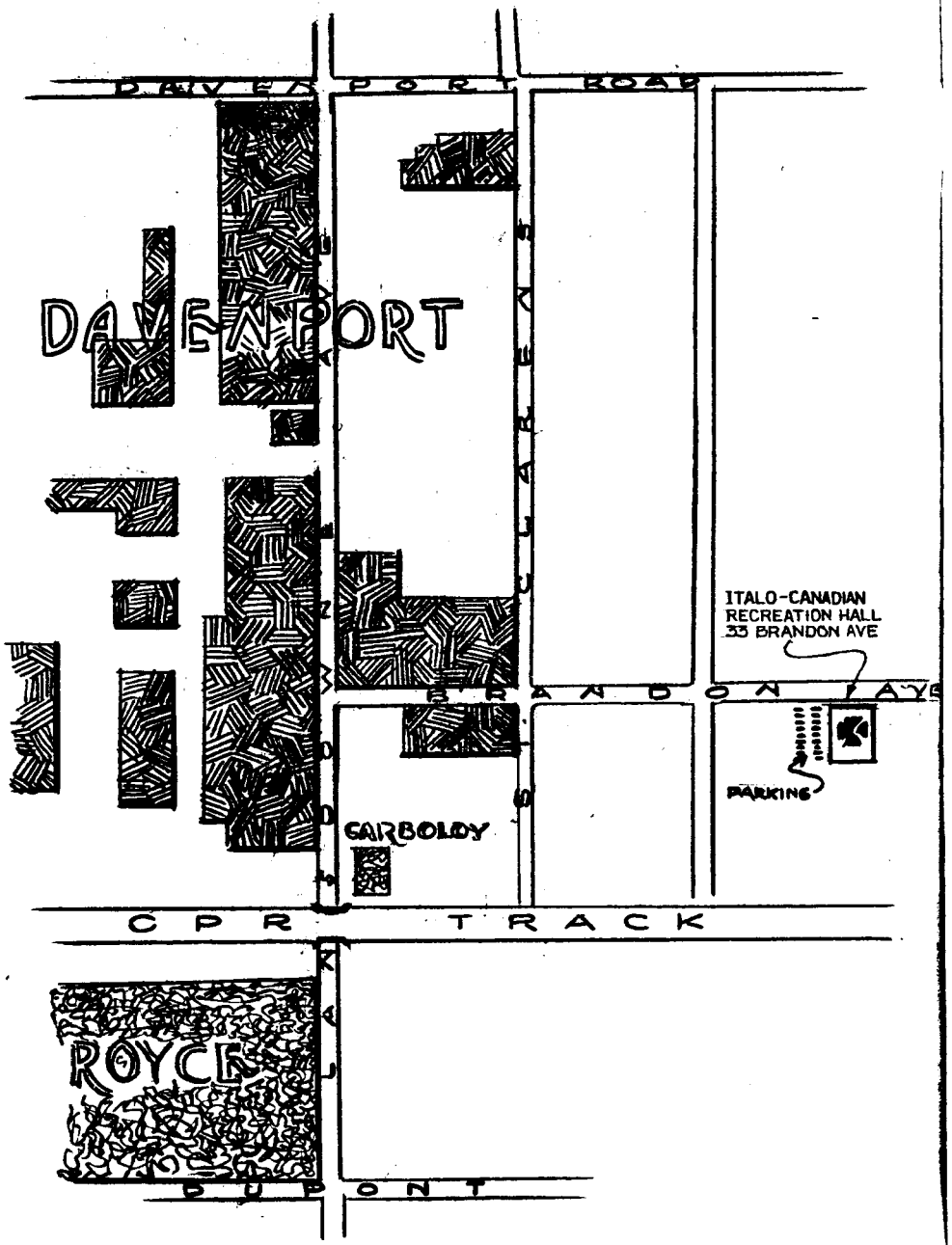
Dave Sugar

Kay Sherborn

Geo Reynolds

Perc Beston

Terry O'Grady






# V A L U E  A N A L Y S I S

## D A V E N P O R T

November 19th 1952

The registration center will be at the Italo-Canadian Recreation Club, 33 Brandon Avenue, where adaquate parking facilities will be available. You may leave your cars parked there all day, avoiding the annoyance of finding parking space at other points.

After registration you will receive your badge, program and tour number and will be transported to and from the plant with your guide.

On returning, coffee and do-nuts may be obtained in the Coffee Bar and the morning session will commence.

Lunch will be served at Royce Cafeteria and upon your return at 2:15 the afternoon program will be under way.

A buffet dinner will be served in the adjoining Coffee Bar and while it is in process, the Silicone Story Caravan will set up its display in the meeting room. This presentation will immediately follow dinner.

Please wear your badge throughout the day. It will be your admission ticket to dinner.

## PROGRAM

| | | |
|---|---|---|
| WELCOME | - | A.L. Graham |
| INTRODUCTION | - | I.F. McRae |

---

| | | |
|---|---|---|
| SOL KLEEN | - | J. Ferguson |
| FLOW PAINTING | - | J. Biafore |

## LUNCH

| | | |
|---|---|---|
| COMPOUND | - | R. Forbes |
| STUD WELDING | - | D. Sugar |
| PERMAFIL | - | W. King |
| OIL COOLERS | - | D. Billings |
| CLAMPS | - | K. Bryant |
| CORE ANALYSIS | - | M. Greenwood |
| SHIPPING CRATES | - | E. Muir |

## DINNER

| | | |
|---|---|---|
| VALUE ANALYSIS | - | C. Watt |
| SUMMING UP | - | C.A. Henderson |

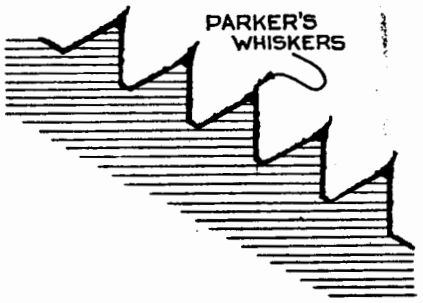
"THE SILICONE STORY"

Program Illustration - J. Donnelly



# SOL KLEEN

—— J.FERGUSON





Because the parkerized fastenings were causing delay in assembly, requiring adjustments of piece work prices, and failing to pass incoming inspection a change was necessary.

Sol Kleen is under our own control. It protects the fastenings. It does not build up on threads. It costs less.

Parts are processed for floor stock and the after rinse in a phosphatic bath leaves a surface especially easy to paint.

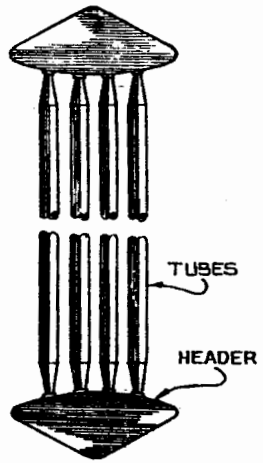
Savings - 105,000 lbs. per year.

Saving nearly 2¢ per lb.

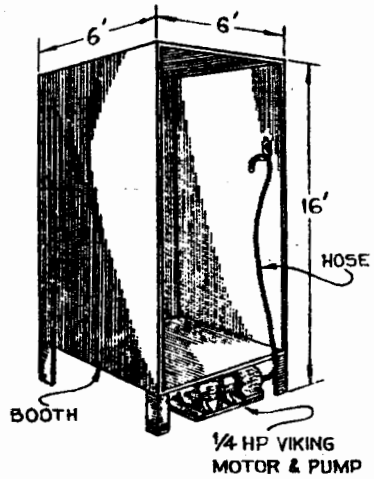

3 TANK SET-UP

# Flow Painting

— J. Biafore




4 TUBES DEEP.
44, 60 OR 76 TUBES
IN HEADER.




BOOTH & STAGING AREA — 72 SQ.FT.
RACK AREA FOR 6 RADS — 40 SQ.FT.
STORAGE AREA ——— 150 SQ.FT.
TOTAL AREA ——— 262 SQ.FT.

**Painting a radiator has always been a problem, we used or considered:**

**Brush Painting**

**Spray Painting**

**Dip Painting**

**Flow Painting**

**Flow painting is relatively cheap, requires a small working area and the job requires no special preparation.**

Annual Savings
$27,500



# COMPOUND

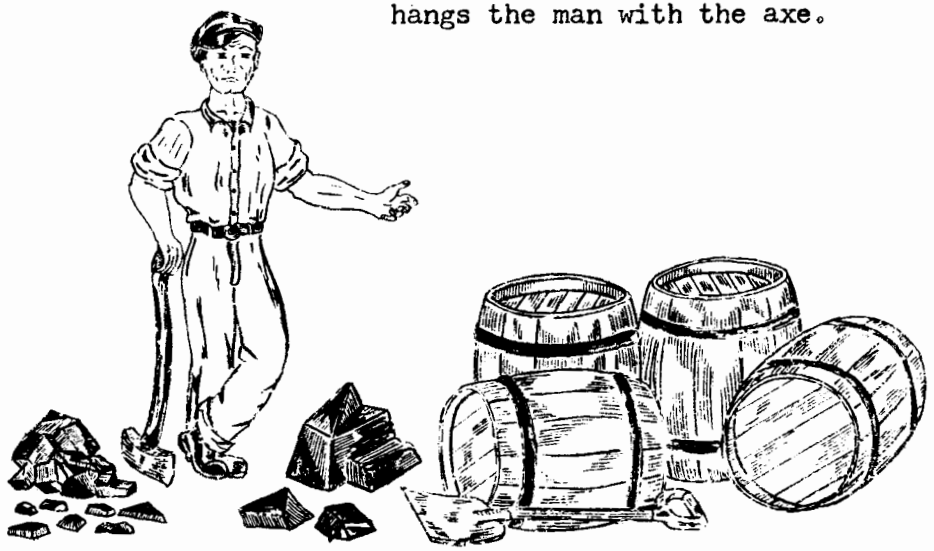
FOR FLUORESCENT BALLASTS

by R. FORBES

Compound is poured hot into ballast cases to seal all the parts against moisture and to help carry off heat. It is purchased in barrels, cut up and fed to melting pots. The operator simply lets it run into each case.

Despite its cheapness and simplicity it represents many dollars each year. The problems associated with it are, economical container size and handling.

Many improvements have been made in a minor way but over all still hangs the man with the axe.



# STUD WELDING

D. SUGAR

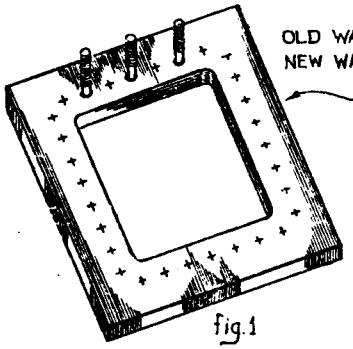


fig.1

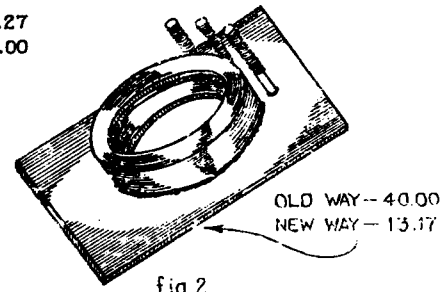


fig.2

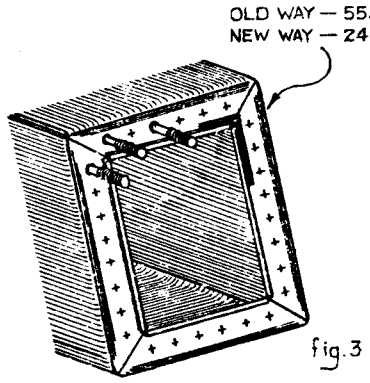


fig.3

To eliminate tapped holes, thick flanges and to provide "on the job" placement of studs, the Nelson Stud Welding process was adopted.

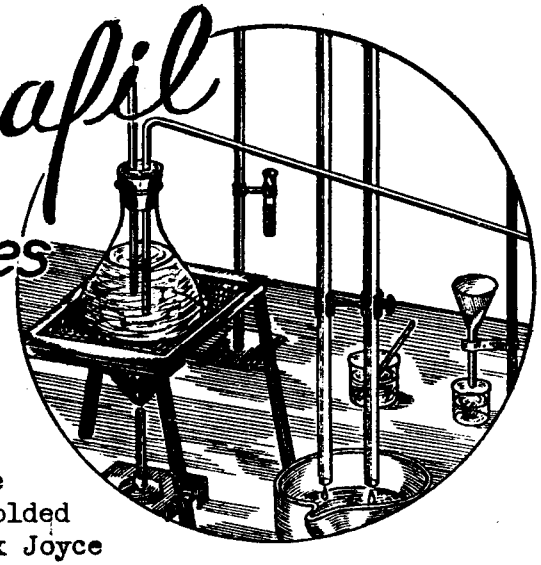
The use of these studs proved to be more than a simple replacement of a tapped hole with a Nelson Stud. The detail design of the part had to be adapted to this technique. Each application had to be considered on its own merits.

Studs may be male, female or shouldered. The maximum practical size is 3/4 inch although 7/8 inch may be welded.

The savings effected will be improved when the studs are obtainable in Canada. A plant is now being erected.



# Permafil & its uses



—W. KING—

This is a versatile material. It will be molded and demonstrated by Alex Joyce and Paul Szasz.

Permafil is G.E. Polyester Resin in liquid form.

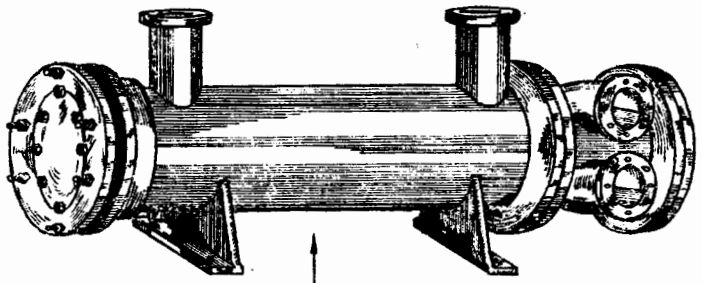
It can be used with different fibres; glass, cotton, jute, paper etc. and can be molded, sprayed, dipped or built up in layers.

It can be used to overcome porosity in castings. It can impregnate coils. Its viscosity can be controlled. Its curing time can be varied from minutes to days.

The savings to be affected by the use of Permafil do not lie in the cost of the material but in the operations eliminated in the production of parts.

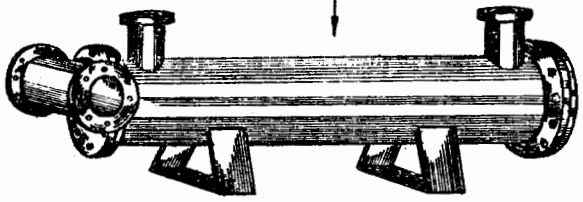
# OIL TO WATER Coolers

D.G. BILLINGS



OLD DESIGN

NEW DESIGN



One of many methods of cooling transformers is by external heat exchangers. For many years we purchased these from outside vendors. In the Cochrane line manufactured at Davenport, are heat exchangers of various kinds.

The coolers purchased were elaborate affairs so our design was from the standpoint of simplification of every part.

The final result

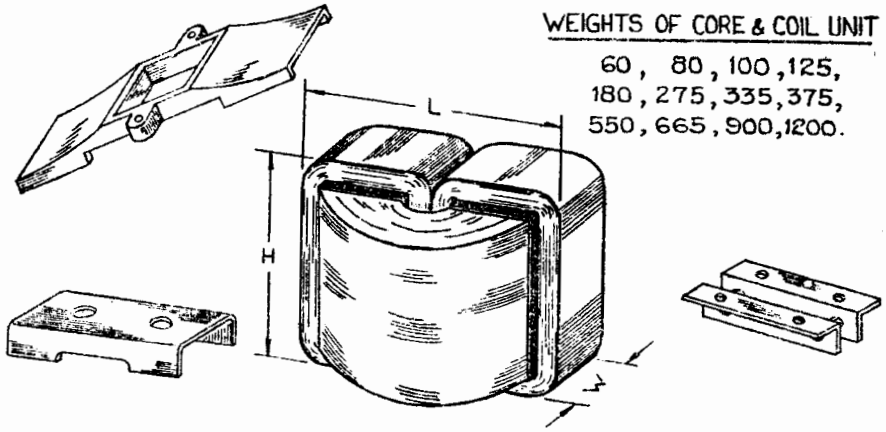
30% smaller

and a saving of

$700 per cooler



# CLAMPS — K. BRYANT




WEIGHTS OF CORE & COIL UNIT

60, 80, 100, 125,
180, 275, 335, 375,
550, 665, 900, 1200.

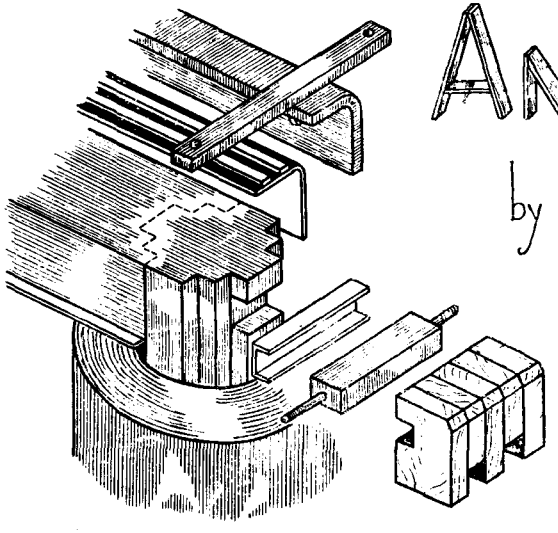
This is the story of the search for a clamp. Clamps have to do two jobs. They have to squeeze the core and coils into a solid unit and they provide the means of supporting accessories and fastening the unit in the tank.

| | |
|---|---|
| Old Cast Clamp | $ 5.69 |
| Redesigned and Streamlined | 1.96 |
| First in a New Design | 1.48 |
| Latest Standard Clamp | 1.17 |

10,000 to 20,000 units per year.

The above prices are for one size (25KVA). The improvements are applying across all ratings.

# Core Analysis

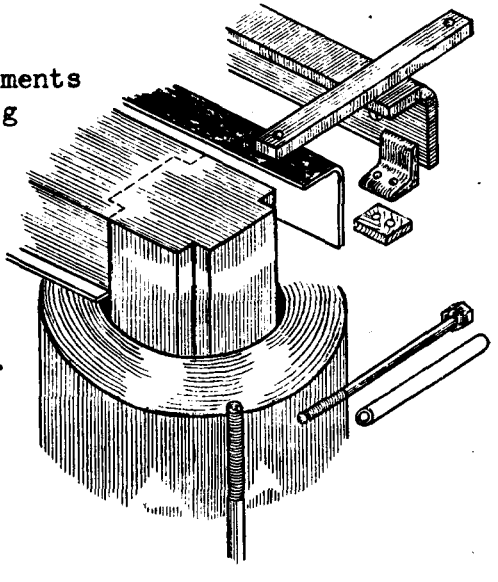


by M.Greenwood

Less Pieces

Less Cost

The reduction of parts once considered absolutely essential by the application of Value Analysis principles to each.



Achievements were; a cost saving of $3000, standard clamps, tanks and terminal boards, and lower core loss.

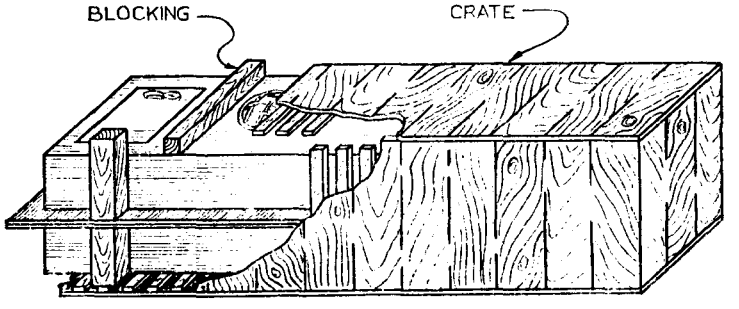
Greater value at less cost.

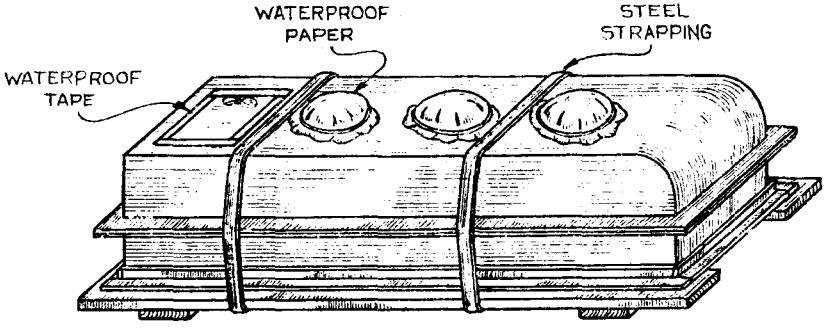


# Crating

by E.MUIR

## To crate or not to crate?




The product is not uniform. The size and strength of the crate is often left to a carpenter - shipper. The crate has weighed as much as the article shipped.

We progressed from solid timber structures to slatted boxes. Now we find a few steel straps on a pallet may do the job.

We have only started but so far savings totaling $24,000 have been realized.

# THE Silicone STORY

INTRODUCED BY: C.K. FRASER
Manager - Sales & Service
Chemical Materials

PRESENTED BY: THE WATERFORD ENGINEERS
with the SILICONE CARAVAN

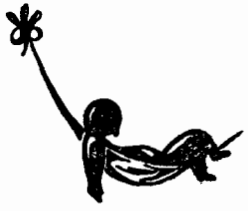
The basic properties of silicones and the application of those properties to your industry.

SILICONES: Resistance to high and low temperature

Outstanding release from adhesion

Unusual surface characteristics

Inertness



For answers to your own problems
Contact: CHEMICAL MATERIALS
DAVENPORT WORKS



NOTES