

1959

American
Electroplaters
Society

GOLDEN



JUBILEE

**5th EMPIRE STATE
REGIONAL MEETING**

SATURDAY, APRIL 11, 1959

HOTEL STUYVESANT

BUFFALO, NEW YORK

OFFICERS OF THE BUFFALO BRANCH



PRESIDENT
FRANK W. RUDOLPH
WURLITZER CO.

BOARD OF MANAGERS
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TRICO PRODUCTS CORP.
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R. G. BLECKINGER
CHEMICAL SALES CO.

LIBRARIAN
JOHN DONALDSON
SYLVANIA ELECTRIC PRODUCTS INC.



WELCOME

The members of the Buffalo Branch are honored to have you as their guest at the 5th Empire State Regional Meeting, American Electroplaters' Society. Please take the opportunity to introduce yourself to any member of the Buffalo Branch. Each member of the Buffalo Branch has a personal interest in this undertaking, and will endeavor to see that your visit is profitable as well as entertaining.

We extend a cordial welcome to the ladies, their presence adds much to our fellowship. The wives of the Buffalo members have made every effort to make it enjoyable for you during your visit.

This program carries the message of many firms who have helped to make this session possible, by their participation. We have asked them to participate because we feel that they have something to offer that you may need.

We trust that we have not forgotten anything to make your visit worthwhile.

Handwritten notes:
1/24/59
1/24/59
1/24/59

PROGRAM

FIFTH ANNUAL STATE REGIONAL MEETING

AMERICAN ELECTROPLATERS SOCIETY

Saturday, April 11, 1959

HOTEL STUYVESANT, BUFFALO, N. Y.

Registration in Hotel Lobby, Starting 12 Noon

ELECTROPLATERS EDUCATIONAL SESSION: — 2:00 P.M., — DELFT ROOM

Introductory remarks by Buffalo Branch President,
Frank Rudolph, The Wurlitzer Company

Chairman: HAROLD SHAPIRO

"The Role of Stress in the Electrodeposition of Metals,"

by I. Laird Newell, President of the Henry Souther Engineering Company,
Hartford, Conn.

"Hard Chrome Plating"

by Manuel Ben, Supervisor of the Plating Service Section of the
General Motors Electrochemistry and Polymers Department,
Detroit, Mich.

ORGANIC FINISHING EDUCATIONAL SESSION — 2:00 P.M.

VICTORIA ROOM

Introductory remarks by Buffalo Branch Vice President,
John C. Scholterer Keystone Chromium Corporation.

Chairman: JOHN DONALDSON

"Plastisols and Organosols as Protective and Decorative Coatings"

by Fremont L. Scott, Research Manager of the Organic Division, Research and
Development Department of the Metal and Thermit Corporation,
Rahway, New Jersey

"Multicolor Enamels"

by Everett W. Linton, Sales Manager of the Duralac Chemical Corporation,
Newark, New Jersey

COMBINED EDUCATIONAL SESSION — 4:00 P.M. — DELFT ROOM

Chairman: FRANK RUDOLPH

"Color and Texture in Aluminum Finishes"

the award winning film produced by The Aluminum Company of America.

BANQUET AND ENTERTAINMENT

Banquet — 7:00 P. M. — Starlit Room

MENU

FRUIT CUP

SOUP DU JOUR

RELISH PLATES

ROAST PRIME RIBS OF BEEF AU JUS

RISSOLE POTATO

GREEN STRING BEANS

CHEF SALAD

ROLLS & BUTTER

ICE CREAM, COOKIE

COFFEE

Dancing — 9:00 P.M. — Starlit Terrace

FIFTH ANNUAL REGIONAL COMMITTEE

General Chairman	Frank Rudolph
Educational	Harold Shapiro John Donaldson O. B. Kirchoff
Program	John C. Scholterer Raymond Bleckinger Paul Conn Charles Fotheringham Joseph Ruff
Tickets	Robert Castle Roy Laciura Eric Sampson Simon Bush
Publicity	Robert Lienert John Martin Robert Eich
Reception	Allan A. Janis William Hart L. A. Davis C. J. Wernlund

LADIES PROGRAM

Registration ----- Hotel Lobby, starting at 12 Noon

Luncheon ----- Peter Stuyvesant Room, 1:30 P.M.

M E N U

TOMATO JUICE

CHICKEN SALAD PLATTER

TOMATO, BOILED EGG, CHIPS

ICE CREAM, COOKIE

COFFEE

Mr. Clark Kennedy of Hodge Florists of Buffalo will demonstrate proper floral arrangements. Mr. Kennedy is an authority on flowers and their arrangement and has appeared on many local television programs.

Ladies Committee

- 1 Mrs. Fred D. Goeckel
- ✓ Mrs. Frank Rudolph
- 3 Mrs. John L. Martin
- 4 Mrs. Harold Shapiro
- ✓ Mrs. John C. Scholterer
- 4 Mrs. Roland Campbell
- 6 Mrs. Robert E. Lienert

Miss Mary Ann Schupien - Registration

American Electroplaters' Society

CAPITOL BRANCH

- William R. Allison
Merton F. Johnson
Robert W. Wolf
Edwin C. Frieberg
Chester R. Klimek
John H. Green
Zygamond Nash
William McGowan
Nicholas Calantone
Salvatore D'Andrea
Donato F. Dagnoli
David Day
Arthur Eisner
Leonard Crenan
Ferdinand Schweitzer
Edward L. Pilkington
Wilson J. Becker
Claude R. Williams
Fred Balder
Walter C. Bentley
Victor Capogna
Louis Hibbs
R. Hill
Frederick A. Infield
Raymond K. Dunlevy
Anthony Fazzone
Rolf Geise
Dexter Goodwin
Michael Guarneri
Thomas Millett
William R. Nelson
Adam Osielski
Charles Schenk
Carl Stella
Gerald P. Irvine
Herbert T. James
Joseph Kabat
Ernest E. Lavender
George A. Miller
William P. Naylon
Warren Cox
Edward Le Gere
Edward T. Raymond
Merle Shaw
Donald E. Walford
- 237 Gifford Road, Schenectady, N. Y.
1581 Kingston Ave., Schenectady, N. Y.
Cresmour Road, Rhinebeck, N. Y.
17 Van Buren St., Albany, N. Y.
16 Southern Ave., Pittsfield, Mass.
RFD No. 1 Thatcher Park Rd., Voorheesville, N. Y.
40 Blackington St., North Adams, Mass.
33 Madison St., Saratoga Springs, N. Y.
734 Western Ave., Albany, N. Y.
204 Pine Grove Drive, Pittsfield, Mass.
80 Lyman St., North Adams, Mass.
RFD No. 3, Ballston Spa, N. Y.
1021 Helen St., Schenectady, N. Y.
Wood Chuck Hill Road, Fayetteville, N. Y.
975 River View Road, Schenectady 9, N. Y.
37 Mitchell St., Saratoga Springs, N. Y.
1129 Wescott Rd., Schenectady, N. Y.
Reservoir Road, Staatsburg, N. Y.
3013 Collingwood St., Roanoke, Va.
1505 3rd Ave., Watervliet, N. Y.
6 Hawk St., Scotia, N. Y.
1613 Highland St., Troy, N. Y.
1311 4th Ave., Watervliet, N. Y.
RFD No. 1, Burnt Hills, N. Y.
Huntington Road, Worthington, Mass.
1064 Austin Place, Schenectady, N. Y.
Hammond Hill Road, Dover Plains, N. Y.
8 Vine St., Scotia, N. Y.
2133 Van Vranken Ave., Schenectady, N. Y.
Feura Bush Rd., Glenmont, N. Y.
Ritter Chemical, West Main St., Amsterdam, N. Y.
820 Cleveland Ave., Schenectady, N. Y.
1765 Lenox Rd., Schenectady 8, N. Y.
88 Goodwin St., Bristol, Conn.
2 Owassa Ave., Essex Junction, Vt.
126 Simmons Ave., Cohoes, N. Y.
15 Albion St., Scotia, N. Y.
c/o I.B.M. Corp., Electric Typewriter Div., Lexington, Ky.
Hurley Heights, RFD No 3, Kingston, N. Y.
RFD No. 1, Ballston Lake, N. Y.
1141 Barber Drive, Schenectady, N. Y.
United Plating, 1776 Foster Ave., Schenectady, N. Y.
123 Harryel St., Pittsford, Mass.
239 Caroline St., Saratoga Springs, N. Y.
Box 85, RFD No. 3, Kingston, N. Y.

MOHAWK VALLEY BRANCH

- C. P. Raehm, Jr.
Walter L. Sackett
Arthur Overend
Carl W. Fenner
Charles Manasari
Herman Schurr
Phillip Jankiewicz
Kenneth Baker
- 422 Quentin Road, Utica, N. Y.
30 Owen Place, Whitesboro, N. Y.
43 Myers Ave., Yorkville, N. Y.
27 S. Fifth Ave., Ilion, N. Y.
Oneida Limited, Sherrill, N. Y.
15 Ferris Ave., Utica, N. Y.
72 Cross St., Yorkville, N. Y.
17 Kellogg Road, New Hartford, N. Y.

George Simmons
Francis A. Czech
Henry Crouse
Jack Bension
Franklin Brownell
Charles Bridgett
Ben Tisi
A. R. Wilbur
Raymond Gros
Kieth Kidder
Merle Ihrie
David Day
George E. Blanchard
Joseph P. Donovan
Merwin N. Warren
Charles A. Higgeson
Tullio DeJoseph
James Lewis
Ted Patrick
James Luker
Robert A. Stewart
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Henry Blum
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Robert Howard
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Earl Guyette
Edward Stys
Joseph J. Cox, Jr.
Albert Jenczenski
Edwin G. Warner
William H. Byron
Jerome Jenny
Lee Godkin
John Geehr
John W. Rozycki
A. R. Sweet
Mahlon York
Ted Duvall
Stanley Kozein
William Mills
Walter H Wolczyk
Russell A. Bantham

156 Barringer Road, Ilion, N. Y.
7 Cambridge Ct., Whitesboro, N. Y.
1414 Taylor Ave., Utica, N. Y.
38 Ashwood Ave., Whitesboro, N. Y.
591 E. Monroe St., Little Falls, N. Y.
8 Parkway Pl., New Hartford, N. Y.
79 Alexander St., Little Falls, N. Y.
169 W. Main St., Ilion, N. Y.
RFD No. 1, Herkimer, N. Y.
268 Otsego St., Ilion, N. Y.
14 Pineview Terr., Sidney, N. Y.
RFD No. 3, Ballston Spa., N. Y.
Box 165, South New Brelin, N. Y.
34 Pearl St., Gloversville, N. Y.
35 Tamarack Drive, New Hartford, N. Y.
50 Fountain St., Clinton, N. Y.
808 Eleanor Pl., Utica, N. Y.
31 Pearl St., New Hartford, U. Y.
28 Parkway Drive, Whitesboro, N. Y.
2009 Sunset Ave., Utica, N. Y.
4 Osborn Road, New Hartford, N. Y.
411 S. Jay St., Rome, N. Y.
918 Haak Ave., Utica, N. Y.
1219 South St., Utica, N. Y.
12 Oatley Ave., Yorkville, N. Y.
2056 Genesee St., Utica, N. Y.
19 Cone Circle, New Hartford, N. Y.
Harts Hill Terr., Whitesboro, N. Y.
319 Seneca St., Oneida, N. Y.
153 Willow Place, Sherrill, N. Y.
Wilcox Road, Whitesboro, N. Y.
81 W. Clark St., Ilion, N. Y.
104 Dryden Ave., Utica, N. Y.
Brunswick Radio Corp., 80 Lincoln St., Gloversville, N. Y.
Decca Records, Gloversville, N. Y.
39 S. Judson St., Gloversville, N. Y.
Box 118A, RFD No. 1, Chaango Forks, N. Y.
Brimfield St., Clinton, N. Y.
1111 York St., Utica, N. Y.
6A Campbell Ave., New York Mills, N. Y.
110 Winchester Drive, New Hartford, N. Y.
Sperry Rand Div., Utica, N. Y.
25 Pearl St., New Hartford, N. Y.

ROCHESTER BRANCH

David Anderson
Roy J. Bailey
Eli Beaudry
Raymond Berghold
Frank O. Beuckman
Donald Blum
Victor Bonaldi
Loring F. Carson
Thomas V. Casselman
Richard Caudle
Sam Cipparvolo
John J. Cippola
John Cirelli
Charles B. Clark
Lorin Correll
Anthony J. Cottrone
Joseph T. Cromey
John F. DeLelys
Eugene S. DeWitt

299 Walzer Road, Rochester 9, N. Y.
200 Anderson Ave., Rochester 7, N. Y.
19 Meech Park, Rochester 13, N. Y.
643 Post Ave., Rochester 19, N. Y.
953 Denise Road, Rochester 12, N. Y.
134 Danbury Circle, Rochester 18, N. Y.
166 Whitman Road, Rochester 16, N. Y.
2705 Pinnacle Road, Rush, N. Y.
48 Wimbledon Road, Rochester 17, N. Y.
133 North Ave., Rochester 13, N. Y.
37 Brayer St., Rochester 6, N. Y.
24 Seneca Ave., Rochester, N. Y.
921 Pixley Road, Rochester 11, N. Y.
1329 Calkins Road, Pittsford, N. Y.
22 Gatewood Ave., Rochester 11, N. Y.
1565 Ridgeway Ave., Rochester 6, N. Y.
346 Auburn Ave., Rochester 6, N. Y.
1586 Middle Road, Rush, N. Y.
1657 South Ave., Rochester 7, N. Y.

Francis P. Dougherty	208 Milburn St., Rochester 7, N. Y.
Robert Duncan	West Union Extension, Newark, N. Y.
William A. Elston, Jr.	75 Willowbrook Road, Rochester 16, N. Y.
Charles B. Fideor	180 St. Casimer St., Rochester 21, N. Y.
Harold R. Finch	c/o Crescent Tool Co., Jamestown, N. Y.
Robert Fitzsimmons	Lapp Insulator Co., LeRoy, N. Y.
Robert L. Flint	78 Durand Drive, Rochester 22, N. Y.
Rollin W. Furguson	1046 Five-Mile Line Road, Webster, N. Y.
Barrie Gardner	288 Champlain St., Rochester, N. Y.
Robert A. Graham	710 Stone Road, Rochester 16, N. Y.
Carl Greene	Pannell Road, Fairport, N. Y.
Salvatore Guinta	32 Francis St., Rochester 9, N. Y.
Robert A. Harold	15 Hillcrest St., Rochester 9, N. Y.
Clement Hilberer	98 Aragon St., Rochester, N. Y.
Sargent Hiscuit	30 Beachon Road, Rochester 11, N. Y.
Allen W. House	460 Ames St., Rochester 6, N. Y.
William Howard	145 Canton St., Rochester 6, N. Y.
Joseph Hull	Box 149, Hilton, N. Y.
Lewellyn J. Hutchings	2447 Browncroft Blvd., Rochester 10, N. Y.
Frederick L. Johnson	21 Shire Oaks Drive, Pittsford, N. Y.
Alfred H. King	c/o H. W. Chemical Co., 200 Anderson Ave., Rochester, N. Y.
Frank Kolb	12 Churchlea Place, Rochester 11, N. Y.
Frank J. Kosma	6406 Million Dollar Hgwy., Brockport, N. Y.
John R. Lenzi	136 Aldine St., Rochester 11, N. Y.
Bernard Lindstrom	18 Vick Park B, Rochester 7, N. Y.
Robert L. McCrea	106 Faragut St., Rochester, N. Y.
Francis McNutt	214 Seyle Terrace, Rochester, N. Y.
David Messinger	135 Clifford Ave., Rochester 21, N. Y.
Roswell Minard	50 Amsterdam Road, Rochester 10, N. Y.
W. H. Moffatt	30 Centre Terrace, Rochester 17, N. Y.
Linwood P. Morrison	1240 Weiland Road, Rochester 13, N. Y.
Karl Nell	388 Dorchester Road, Rochester 10, N. Y.
Richard Nersinger	57 Galusha St., Rochester 5, N. Y.
Jack Pandina	250 Arbutus St., Rochester, N. Y.
Edward S. Penczeck	102 Milton St., Rochester 19, N. Y.
Peter Pelligrino	171 Penfield Road, Rochester 10, N. Y.
David Penn	11 Jefferson Road, Rochester 18, N. Y.
Angelo Picardo	52 Orange St., Rochester 6, N. Y.
Elmer W. Pohl	261 Morrow Drive, Rochester 12, N. Y.
Michael Polvino	93 Willmont St., Rochester 9, N. Y.
Emil A. Pottridge	34 Superior Road, Rochester, N. Y.
Harwood E. Prevost	108 Elder St., Rochester 6, N. Y.
Nicholas Ribauda	140 McNaughton St., Rochester 6, N. Y.
Stanley W. Rosowski	219 Zuber Road, Rochester 22, N. Y.
Vern C. Schaeffer	98 Arrowhead Drive, Rochester 11, N. Y.
Bernard H. Schenkel	77 N. Water St., Rochester 4, N. Y.
George Scobell	37 Briarpatch Road, Rochester 11, N. Y.
James B. Scobell	c/o Scobell Chem., Rochester 10, N. Y.
Walter G. Sittman	315 Alexander St., Rochester, N. Y.
Wellington V. Smith	93 Walbert Drive, Rochester 11, N. Y.
Edward S. Szarllicki	742 Portland Ave., Rochester 21, N. Y.
Harry Tennenbaum	126 Rauber St., Rochester 5, N. Y.
Fred C. Thiem	266 Avenue D., Rochester 21, N. Y.
Cecil F. Thornton	20 Lafayette Parkway, Rochester 10, N. Y.
Edward H. Traub	27 Trowbridge Trail, Pittsford, N. Y.
William M. Tucker	1921 Ridge Road W., Rochester 13, N. Y.
Roger C. Valente	400 Maple St., Rochester 11, N. Y.
Anthony G. Valvano	2659 English Road, Rochester 12, N. Y.
John J. Vanderbeck	138 Elmgrove Road, Rochester 13, N. Y.
Peter VanDilst	29 Fair Oaks Drive, East Rochester, N. Y.
Clarence VanEpps	305 Hurstbourne Road, Rochester 9, N. Y.
Walter Vogt	c/o Shuron Optical Co., 242 Andrews St., Rochester 4, N. Y.
Richard E. Waite	662 Monroe Ave., Rochester 7, N. Y.
Edwin M. Wallin	70 Peach Tree Rd., Penfield, N. Y.
Harry Weaver	375 Highland Ave., Rochester 20, N. Y.
Orrin B. Webber	32 Myrtle St., Rochester 6, N. Y.

SOUTHERN TIER BRANCH

Charles Allen	RFD No. 2, Willseyville, N. Y.
Ivan Allis	599 Thompson St., Elmira, N. Y.
Holger Andreansom	Apalachin, N. Y.
Ken Ashley	210 Sayre Ave., Horseheads, N. Y.
George Ball	269 Riverside Drive, Johnson City, N. Y.
Robert Baltzell	787 Larchmont Rd., Elmira, N. Y.
Erie Berical	620 Oakdale Rd., Johnson City, N. Y.
Dewey Bates	219½ Cleveland Drive, Endicott, N. Y.
Smith Botting	Chenango Forks, N. Y.
Charles Bound	14 Leslie St., RFD No. 1, Conklin, N. Y.
Eugene Brewer	509 Grant St., Endicott, N. Y.
John Bunsie	19 Duane Ave., Binghamton, N. Y.
Michael Capece	Tracey Rd., Waverly, N. Y.
Donald Clupper	254 Erie St., Waverly, N. Y.
Charles Cordier	1106 Wildwood Rd., Elmira, N. Y.
Richard Cullen	1 Gordon Place, Binghamton, N. Y.
Jack Darling	14 Carlton Place, Binghamton, N. Y.
Charles Donald	261 Academy Drive, Vestal, N. Y.
Charles Emory	RFD No. 2, Elmira, N. Y.
Austin Fletcher	406 Conklin Ave., Binghamton, N. Y.
Raymond Fuller	78 Grant St., Johnson City, N. Y.
Harold Harper	211 Reese St., Vestal, N. Y.
Charles Harris	797½ Chenango St., Binghamton, N. Y.
Harry Herlikofer	76 Saint Charles St., Johnson City, N. Y.
Tomas Holton	Box 119, Day Hollow Rd., RFD # 1, Owego, N. Y.
Robert Ingram	3005 Yale St., Endicott, N. Y.
Gorden Hitt	135 Pennsylvania Ave., Binghamton, N. Y.
William Karski	1008 Lake St., Elmira, N. Y.
Paul Landre	West Main St., Bainbridge, N. Y.
Raymond Lott	Box 147, Canal St., Port Crane, N. Y.
Vincent Maxian	Stela Ireland Rd., Binghamton, N. Y.
John Majka	30 Ferndale Drive, Binghamton, N. Y.
Paul Miller	Friendship Stage, Binghamton, N. Y.
John McCarty	RFD #1, Van Etten, N. Y.
Chas. Potter	Main St., Hammondsport, N. Y.
Morgan Rake	71 Lusk St., Johnson City, N. Y.
Donald Reagen	RFD #1, Horseheads, N. Y.
Leonard Rood	Hallstead, Penn.
Bill Rossiter	5 Ellen St., Rt. 97, Binghamton, N. Y.
Stanley Sambora	10 Beckwith Ave., Binghamton, N. Y.
Fred Smith	771 Taylor Rd., Horseheads, N. Y.
Stanley Stefanski	418 Highland Ave., Horseheads, N. Y.
Harry Watters	RFD #1, Dimock, Penn.
Bruce Wells	3002 Yale St., Endicott, N. Y.
Roger Wheeler	Box 48, Killawog, N. Y.
Willis Wood	47 Nolan Rd., Binghamton, N. Y.
George Zurenda	1223 Lake St., Elmira, N. Y.

SYRACUSE BRANCH

Harry L. Amedro	105 Ruhamah Ave., Syracuse 5, N. Y.
C. Foster Applegate	101 Revere Road, East Syracuse, N. Y.
Anthony Basilone	137 Marlboro Road, Syracuse 6, N. Y.
Harry F. Beagle	207 Rowland St., Syracuse 4, N. Y.
Sidney Block	2325 E. Genesee St., Syracuse 10, N. Y.
Mathias P. Boland	131 Overlook Ave., Wadsworth, Ohio
Gene Brost	24 Chestnut St., Murray Hill, N. J.
Harold W. Bushorr	105 Hobson Ave., Fayetteville, N. Y.
Allen E. Cahill	151 Clarke St., Syracuse 10, N. Y.
Edward F. Company	910 Boulevard St., Mattitdale 11, N. Y.
Robert A. Carpenter	138 Oakland St., Syracuse 10, N. Y.
George Cavanaugh	129 Kenwood Ave., Syracuse 8, N. Y.

Robert Colvin 112 Bradford Lane, Syracuse 3, N. Y.
 Joseph Corbett 185 Clark St., Auburn, N. Y.
 Frank Corso 114 Haywood Rd., Syracuse, N. Y.
 George Damon Electronics Park, Room 11, Bldg. 3, General Electric
 Syracuse, N. Y.
 John B. Davidson Cowles Chemical Co., Skaneateles Falls, N. Y.
 Robert Donaghy 35 McHarrie St., Baldwinsville, N. Y.
 Bruce Dutter Weedsport, N. Y.
 William Eckard, Sr. 102 Marywood Dr., N. Syracuse 12, N. Y.
 Edwin C. Elliott 18 Highland St., Geneva, N. Y.
 Luke Fountain 2106 W. Genesee St., Syracuse, N. Y.
 Herbert N. Gerhardt, Jr. Pine Grove Rd., RFD #3, Clay, N. Y.
 Herbert N. Gerhardt, Sr. 202 Ferguson Park, North Syracuse, N. Y.
 Joseph F. Gilbert George St., Constantia, N. Y.
 Daniel Gray Works Laboratory, Oneida Ltd., Sherrill, N. Y.
 A. A. Gutekunst Pine Grove Rd., RFD. #3, Clay, N. Y.
 Joseph W. Haines 17 Brookfield Place, Pleasantville, N. Y.
 Edward Hall West Monroe, N. Y.
 William R. Hatter 106 Briggs St., E. Syracuse, N. Y.
 David Hitchcock 134 E. Brutus St., Weedsport, N. Y.
 Gordon B. Hitchcock 187 Main St., Port Byron, N. Y.
 Henry C. Holbert 249 Valley Drive, Syracuse 7, N. Y.
 Edgar J. Hollister 55 Lincklaen St., Cazenovia, N. Y.
 Chris J. Hopkins 637 Scoville Ave., Syracuse 3, N. Y.
 Frank P. Hosley RFD #2, Groton, N. Y.
 Robert Hulland 400 New Castle Rd., Syracuse 4, N. Y.
 W. D. Jefferies 315 Mott Road, Fayetteville, N. Y.
 Floyd F. Kennedy South St., McGraw, N. Y.
 Floyd W. Kenyon 8 Spring St., McGraw, N. Y.
 Anthony S. Klaben 202 Morgan Rd., Syracuse 4, N. Y.
 Thomas Kohler 109 Baker St., E. Syracuse, N. Y.
 William Langmayer 515 S. Edward Ave., Syracuse, N. Y.
 George J. Lawrence 412 Plymouth Dr., Syracuse, N. Y.
 Josephine LeRoy National Plating Co., 1501 Brewerton Rd., Syracuse 11, N. Y.
 G. A. Lordi 70 W. Elizabeth St., Skaneateles, N. Y.
 Irving P. Lynch 403 E. Irving St., E. Syracuse, N. Y.
 Neil Maffei 509 Sedgewick Dr., Syracuse 3, N. Y.
 Joseph Maffei 229 Shotwell Park., Syracuse 6, N. Y.
 Ernest Maffei 1681 James St., Syracuse 6, N. Y.
 Arthur Martineau, Jr. 1024 Onondaga Ave., Syracuse, N. Y.
 John F. Maxian 27 Howard St., Norwich, N. Y.
 Vincent P. McConnell 217 Milford Dr., East Syracuse 4, N. Y.
 Frank Mesle 166 Willow Road, Sherrill, N. Y.
 Harry Miller 617 Sherrill Rd., Sherrill, N. Y.
 L. S. Misenti 140 Clearview Rd., East Syracuse, N. Y.
 Robert Moore 105 Oakley Dr., N. Syracuse, N. Y.
 Robert Morton 300 Twin Hills Rd., Syracuse 4, N. Y.
 Clifford Oates 27 Bailey Ave., Yaleville, Conn.
 James Panto 106 Sunflower Dr., Liverpool, N. Y.
 Kenneth S. Parnell c/o Brown-Lipe-Chapin, Town Line Rd., Syracuse, N. Y.
 Palmer Penoyer 214 W. Malloy Rd., Syracuse 11, N. Y.
 Lawrence A. Phillips 2215 James St., Syracuse, N. Y.
 Willard A. Phillips Bridge St., East Syracuse, N. Y.
 Walter V. Pisacek 214 New Castle Rd., Syracuse 7, N. Y.
 Edward B. Psyck 502 Park St., Syracuse, N. Y.
 Irving Psyck 115 Terry Rd., Syracuse 9, N. Y.
 William Robinson RFD #2, Skaneateles, N. Y.
 Al Saitz 4840 S. Salina St., Syracuse, N. Y.
 Rene Sonnenfeldt RFD #1, Skaneateles, N. Y.
 Milton F. Stevenson Totman Rd., RFD #1, E. Syracuse, N. Y.
 William Storms Bear Rd., N. Syracuse, N. Y.
 E. Paul Swartz 503 W. Newell St., Syracuse, N. Y.
 Richard D. Taylor 52 Sandra Drive, Phoenix, N. Y.
 John J. Tierney 206 Lonsdowne, Dewitt, N. Y.
 Charles D. Underwood 12 Morris St., Auburn, N. Y.
 Edward H. Wallace 443 Kinsley St., Sherrill, N. Y.

Ted Werner
 Wister Williams
 George Woleben
 Irving Wolf
 L. S. Wood
 Stanley Wozniak
 Theodore Yette

203 Laursan Dr., Syracuse 5, N. Y.
 64 Linclaeen St., Cazenovia, N. Y.
 8 Harmon Ave., Brocton, N. Y.
 9 Damson Lane, Liverpool, N. Y.
 1329 Bellevue Ave., Syracuse, N. Y.
 110 Crafton Ave., Syracuse, N. Y.
 29 Columbia St., Mohawk, N. Y.

BUFFALO BRANCH

George Bartle
 A. H. Baum
 George B. Beebe
 S. Biondillo
 R. G. Bleckinger
 C. O. Block
 T. W. Brandes
 Robert Ray Brenan
 Roger Brown
 Simon Bush
 Stanley Bush
 Rolland Campbell
 C. R. Castle
 Dr. Hyman Chessin
 Paul Conn
 C. H. Crowl
 L. A. Davis
 Richard L. Davis
 H. A. Day
 Herbert E. Dean
 M. E. Dildine
 John G. Donaldson
 Robert Charles Eich
 D. Ellis
 Chas. Fossatti
 C. Fotheringham
 R. P. Fricano
 H. A. Fudeman
 H. E. Galvin
 Fred D. Goeckel
 William H. Grats
 A. E. Grazen
 A. M. Gritzmacher
 Wilbur Gruber
 A. J. Gude
 J. F. Guy
 William D. Hart
 Matthew N. Hayes
 Dr. A. A. Janis
 Boris Joffe
 C. Gordon Johnson
 Ernest M. Jones
 W. A. Keefe
 J. Raymond Kilroy
 O. B. Kirchoff
 F. L. Klaiber
 Donald Kline
 Roy Laciura
 A. Lamprecht
 R. Lawicki
 Wm. Lawicki
 F. Joseph Lenahan
 J. A. Leo
 R. Lienert

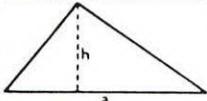
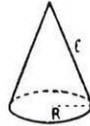
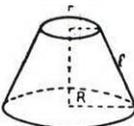
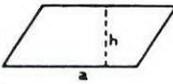
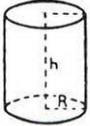
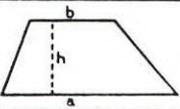
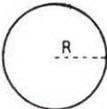
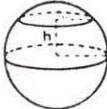
296 Buffalo St., Hamburg, N. Y.
 210 Willow St., Olean, N. Y.
 Salt Rd., Clarence, N. Y.
 411 Baynes Ave., Buffalo, N. Y.
 1382 Niagara St., Buffalo, N. Y.
 1483 Niagara St., Buffalo 13, N. Y.
 115 South 5th St., Olean, N. Y.
 406 Pennsylvania Ave., E. Warren, Pa.
 93 Stone St., Buffalo, N. Y.
 1717 Avenue A, Olean, N. Y.
 1801 Fall Rd., Olean, N. Y.
 238 Sprague St., Jamestown, N. Y.
 24 Mohican Ave., Buffalo 8, N. Y.
 1041 Kingston Dr., Olean, N. Y.
 410 Skillen St., Buffalo 7, N. Y.
 Ft. of Ludington St., Buffalo 6, N. Y.
 12 Englewood Ave., Jamestown, N. Y.
 12 Englewood Ave., Jamestown, N. Y.
 1887 Huth Rd., Grand Island, N. Y.
 866 Woodstock, Tonawanda, N. Y.
 RFD 3, Batavia, N. Y.
 400 Edgewood Place, Warren, Pa.
 1081 Campbell Blvd., North Tonawanda, N. Y.
 710 Ohio St., Buffalo, N. Y.
 48 Lang St., Hamburg, N. Y.
 975 Niagara St., Buffalo, N. Y.
 National Finishing Co., 211 Niagara St., Buffalo, N. Y.
 174 Capen Blvd., Buffalo, N. Y.
 57 Blaine Ave., Buffalo 8, N. Y.
 139 Overbrook, Tonawanda, N. Y.
 3089 Machlen Ave., Niagara Falls, N. Y.
 570 Tiff St., Buffalo 20, N. Y.
 41 Miller Pl., Lockport, N. Y.
 35 Langmeyer, Buffalo 15, N. Y.
 463 Broad St., Horseheads, N. Y.
 RFD 5, Lockport, N. Y.
 223 Shepard Ave., Kenmore, N. Y.
 78 North Ledge Drive, Snyder 26, N. Y.
 409 Roycroft Blvd., Buffalo 21, N. Y.
 236 Hartwell Rd., Buffalo 16, N. Y.
 427 Crossman St., Jamestown, N. Y.
 361 Rhode Island St., Buffalo 13, N. Y.
 48 Woodworth Ave., Jamestown, N. Y.
 69 Regent St., Lockport, N. Y.
 Jamestown Electroplating, Water St., Jamestown, N. Y.
 98 Broadway, Buffalo 3, N. Y.
 140 Zenner St., Buffalo 15, N. Y.
 1491 William St., Buffalo, N. Y.
 105 Chapel Ave., Buffalo 25, N. Y.
 6240 Transit, Depew, N. Y.
 225 Aurora St., Lancaster, N. Y.
 15 Briarwood Drive, West Seneca, N. Y.
 RFD 2, Cuba, N. Y.
 44 Fancher, Buffalo 23, N. Y.

Elmer Lindstrom
Ralph Ludwig
John Mamon
E. M. Marlette
John L. Martin
Clifford R. McClune
R. T. Mead
C. J. Menzemer
K. Merrill
Robert W. Miller
J. A. Money Penny
S. B. Nania
A. H. Nelson
A. Nigro
Michael Notery
L. A. Nowak
F. A. Nowakowski
R. W. Opel
J. L. Osborne
Donald Pembridge
Richard S. Piccoli
R. B. Potter
Russell Pyles
J. R. Ratasczak
Donald Rice
F. W. Rudolph
Joseph Ruff
J. R. Ryan
Irving M. Ryan
E. G. Sampson, Jr.
J. C. Scholter
Harold Shapiro
S. Sharman
R. N. Spencer
Melvin Stachura
Eugene Stefanski
R. S. Stebbins
R. D. Stemmerich
P. W. Talmon
Arthur C. Thompson
John E. Tiebor
Thomas A. Todaro
A. B. Vick
J. A. Vitalie
C. N. Wagonblott
R. L. Wasson
Richard P. Waszak
R. B. Watson
C. J. Wernlund
Platt K. Wiggins, Jr.

RFD #4, Hunt Road, Jamestown, N. Y.
Pine Tree Farm, Youngsville, Pa.
50 Wanda Ave., Cheektowaga, N. Y.
200 Cornwall Ave., Buffalo, N. Y.
1483 Niagara St., Buffalo 13, N. Y.
1345 West 43rd St., Erie, Pa.
309 McKinley Ave., Kenmore 23, N. Y.
267 Woodside Ave., Buffalo 20, N. Y.
Box 45, Stowe, N. Y.
3 Hillview St., Lewiston, N. Y.
4 Terrace Ave., Lakewood, N. Y.
1227 N. Main St., Jamestown, N. Y.
115 Prospect St., Warren, Pa.
519 Ellicott Ave., Buffalo 3, N. Y.
360 Nassau Ave., Kenmore 23, N. Y.
116 Fay St., Buffalo 11, N. Y.
58 Wheelock St., Buffalo 6, N. Y.
364 Moore Ave., Kenmore 23, N. Y.
1095 Niagara St., Buffalo 13, N. Y.
RFD 1, Jamestown, N. Y.
195 Shirley Ave., Buffalo 15, N. Y.
31 North Pearl St., North East, Pa.
127 York St., Olean, N. Y.
566 Michigan Ave., Buffalo 13, N. Y.
P.O. Box 91, Station G, Buffalo, N. Y.
51 Michelle Ave., Depew, N. Y.
1492 Berg Rd., Buffalo 19, N. Y.
Buffalo Elec. Chem Co., Station B, Buffalo, N. Y.
415 Hinman Ave., Buffalo 23, N. Y.
43 W. Main St., Falconer, N. Y.
50 Margaret Rd., Eggertsville 26, N. Y.
159 Marjorie Dr., Kenmore 23, N. Y.
RFD 19, Niagara Falls, N. Y.
National Forge, Box 264, Youngsville, Pa.
118 Columbia Ave., Depew, N. Y.
96 Miller Ave., Buffalo 12, N. Y.
Box 253, North East, Pa.
Wehrle Drive, Clarence, N. Y.
42 Peachrow Lane, Buffalo 25, N. Y.
130 Glenwood Ave., Williamsville 2, N. Y.
80 Page St., Buffalo, N. Y.
Cottage Park, Lakewood, N. Y.
135 Dart St., Buffalo 13, N. Y.
890 E. Fourth St., Olean, N. Y.
2160 Bailey Ave., Buffalo, N. Y.
Box 569, Jo-Anne Drive, Sanborn, N. Y.
229 Atlantic Ave., Buffalo 12, N. Y.
12 Ahrens Ave., Jamestown, N. Y.
8433 W. Rivershore Dr., Niagara Falls, N. Y.
187 Hunt Ave., Hamburg, N. Y.

CALCULATION OF SURFACES

Fundamental Formulas

 <p style="text-align: center;">TRIANGLE</p> $S = \frac{ah}{2}$	 <p style="text-align: center;">CONE Right Circular (Lateral Area)</p> $S = \pi R l$
 <p style="text-align: center;">RECTANGLE</p> $S = ab$	 <p style="text-align: center;">TRUNCATED CONE Right Circular (Lateral Area)</p> $S = \pi (R + r) l$
 <p style="text-align: center;">PARALLELOGRAM</p> $S = ah$	 <p style="text-align: center;">CYLINDER Right Circular (Lateral Area)</p> $S = 2\pi R h$
 <p style="text-align: center;">TRAPEZOID</p> $S = \frac{a+b}{2} \times h$	 <p style="text-align: center;">SPHERE</p> $S = 4\pi R^2$
 <p style="text-align: center;">REGULAR POLYGDH OF n SIDES</p> $S = \frac{nah}{2}$	 <p style="text-align: center;">SPHERICAL ZONE</p> $S = 2\pi R h$
 <p style="text-align: center;">CIRCLE</p> $S = \pi R^2 = \frac{\pi D^2}{4}$	
 <p style="text-align: center;">CIRCULAR SECTOR</p> $S = \frac{\pi R^2}{360} a$	

Making Additions to Plating Solutions

This table gives the number of pounds of any chemical required to bring a bath up to specifications, for various sizes of tanks. Find the number of oz./gal. to be added, then read straight across to the column under the correct size tank to get the total pounds. In-between size tanks can be estimated closely enough for practical purposes. Amounts of additions higher than given in this table can be calculated from these figures. For example, an addition of 18 oz./gal. to an 800 gallon tank would require twice as much chemical as the addition of only 9 oz./gal. to an 800 gallon tank, or 900 lbs.

oz./gal. to be added	TANK SIZE GALLONS									
	100	200	300	400	500	600	700	800	900	1000
0.5	3.1	6.3	9.4	12.5	15.6	18.8	21.9	25.	28.1	31.2
1.0	6.2	12.5	18.8	25.	31.2	37.5	43.8	50.	56.3	62.5
1.5	9.4	18.8	28.2	37.5	46.9	56.3	65.6	75.	84.4	93.8
2.0	12.5	25.	37.5	50.	62.5	75.	87.5	100.	113.	125.
2.5	15.6	31.2	46.9	62.5	78.1	93.8	109.	125.	141.	156.
3.0	18.8	37.5	56.3	75.	93.8	113.	131.	150.	169.	188.
3.5	21.9	43.7	65.6	87.5	109.	131.	153.	175.	197.	219.
4.0	25.	50.	75.	100.	125.	150.	175.	200.	225.	250.
4.5	28.1	56.2	84.4	113.	141.	169.	197.	225.	253.	281.
5.0	31.2	62.5	93.8	125.	156.	188.	219.	250.	281.	312.
5.5	34.4	68.7	103.	138.	172.	206.	241.	275.	309.	344.
6.0	37.5	75.	113.	150.	188.	225.	262.	300.	338.	375.
6.5	40.6	81.2	122.	163.	203.	244.	284.	325.	365.	406.
7.0	43.7	87.5	131.	175.	219.	262.	306.	350.	394.	437.
7.5	46.9	93.8	141.	188.	234.	281.	328.	375.	422.	469.
8.0	50.	100.	150.	200.	250.	300.	350.	400.	450.	500.
8.5	53.1	106.	159.	213.	266.	319.	372.	425.	477.	531.
9.0	56.2	113.	169.	225.	281.	338.	394.	450.	506.	562.
9.5	59.4	119.	178.	238.	297.	356.	416.	475.	535.	594.
10.0	62.5	125.	188.	250.	312.	375.	438.	500.	563.	625.

BUFFING AND POLISHING WHEEL SPEEDS
SURFACE SPEED OF WHEEL IN FEET PER MINUTE

R. P. M. at Arbor or Spindle	DIAMETERS OF WHEELS IN INCHES											R. P. M. at Arbor or Spindle
	4"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"	
800	837	1256	1675	2094	2513	2932	3351	3770	4189	4608	5026	800
900	942	1413	1885	2356	2827	3298	3770	4241	4712	5184	5655	900
1000	1047	1570	2094	2618	3141	3665	4189	4712	5236	5760	6283	1000
1100	1152	1727	2304	2880	3455	4031	4608	5183	5760	6336	6911	1100
1200	1256	1884	2513	3142	3769	4398	5027	5655	6283	6912	7540	1200
1300	1361	2042	2723	3404	4084	4764	5446	6126	6807	7488	8168	1300
1400	1466	2199	2932	3666	4398	5131	5865	6597	7330	8064	8796	1400
1500	1571	2356	3142	3927	4712	5497	6284	7069	7854	8640	9425	1500
1600	1675	2513	3351	4189	5026	5864	6703	7540	8378	9216	10053	1600
1700	1780	2670	3560	4451	5340	6230	7121	8011	8901	9792	10681	1700
1800	1885	2827	3770	4713	5654	6597	7540	8482	9425	10368	11310	1800
1900	1989	2984	3979	4975	5969	6963	7959	8954	9948	10944	11938	1900
2000	2094	3141	4189	5236	6283	7330	8378	9425	10472	11520	12566	2000
2100	2199	3298	4398	5498	6597	7696	8797	9896	10996	12096	13194	2100
2200	2304	3455	4608	5760	6911	8063	9215	10367	11519	12672	13822	2200
2300	2408	3612	4817	6022	7225	8429	9634	10839	12043	13248	14451	2300
2400	2513	3770	5027	6284	7540	8796	10053	11310	12566	13824	15079	2400
2500	2618	3927	5236	6545	7854	9162	10471	11781	13090	14400	15708	2500
2600	2722	4084	5445	6807	8168	9529	10890	12253	13613	14976	16336	2600
2700	2827	4241	5655	7069	8482	9895	11309	12724	14136	15552	16964	2700
2800	2932	4398	5864	7331	8796	10262	11728	13196	14660	16128	17592	2800
2900	3037	4555	6074	7592	9110	10629	12147	13667	15184	16704	18221	2900
3000	3141	4712	6283	7854	9425	10996	12566	14137	15708	17280	18850	3000
3200	3351	5026	6702	8378	10053	11729	13404	15079	16755	18431	20107	3200
3400	3560	5340	7121	8901	10681	12462	14242	16022	17802	19583	21363	3400
3600	3769	5654	7539	9425	11309	13193	15079	16964	18850	20735	22619	3600
3800	3979	5969	7958	9948	11938	13927	15917	17907	19897	21887	23876	3800
4000	4188	6283	8377	10472	12566	14661	16755	18850	20944	23039	25132	4000

CENTIGRADE-FAHRENHEIT TEMPERATURE CONVERSION

Look up known temperature in center (bold face type) column. Its equivalent in either F or C can then be found in the appropriate column at left or right.

°F.	°C.	°F.	°C.	°F.	°C.			
+ 32.0	± 0	-17.78	230.0	110	43.33	428.0	220	104.44
+ 35.6	+ 2	-16.67	233.6	112	44.44	431.6	222	105.56
+ 39.2	+ 4	-15.56	237.2	114	45.56	435.2	224	106.67
+ 42.8	+ 6	-14.44	240.8	116	46.67	438.8	226	107.78
+ 46.4	+ 8	-13.33	244.4	118	47.78	442.4	228	108.89
+ 50.0	+10	-12.22	248.0	120	48.89	446.0	230	110.00
+ 53.6	+12	-11.11	251.6	122	50.00	449.6	232	111.11
+ 57.2	+14	-10.00	255.2	124	51.11	453.2	234	112.22
+ 60.8	+16	- 8.89	258.8	126	52.22	456.8	236	113.33
+ 64.4	+18	- 7.78	262.4	128	53.33	460.4	238	114.44
+ 68.0	+20	- 6.67	266.0	130	54.44	464.0	240	115.56
+ 71.6	+22	- 5.56	269.6	132	55.56	467.6	242	116.67
+ 75.2	+24	- 4.44	273.2	134	56.67	471.2	244	117.78
+ 78.8	+26	- 3.33	276.8	136	57.78	474.8	246	118.89
+ 82.4	+28	- 2.22	280.4	138	58.89	478.4	248	120.00
+ 86.0	+30	- 1.11	284.0	140	60.00	482.0	250	121.11
+ 89.6	+32	± 0.00	287.6	142	61.11	485.6	252	122.22
+ 93.2	+34	+ 1.11	296.2	144	62.22	489.2	254	123.33
+ 96.8	+36	+ 2.22	294.8	146	63.33	492.8	256	124.44
+100.4	+38	+ 3.33	298.4	148	64.44	496.4	258	125.56
+104.0	+40	+ 4.44	302.0	150	65.56	500.0	260	126.67
107.6	42	5.56	305.6	152	66.67	503.6	262	127.78
111.2	44	6.67	309.2	154	67.78	507.2	264	128.89
114.8	46	7.78	312.8	156	68.89	510.8	266	130.00
118.4	48	8.89	316.4	158	70.00	514.4	268	131.11
122.0	50	10.00	320.0	160	71.11	518.0	270	132.22
125.6	52	11.11	323.6	162	72.22	521.6	272	133.33
129.2	54	12.22	327.2	164	73.33	525.2	274	134.44
132.8	56	13.33	330.8	166	74.44	528.8	276	135.56
136.4	58	14.44	334.4	168	75.56	532.4	278	136.67
140.0	60	15.56	338.0	170	76.67	536.0	280	137.78
143.6	62	16.67	341.6	172	77.78	539.6	282	138.89
147.2	64	17.78	345.2	174	78.89	543.2	284	140.00
150.8	66	18.89	348.8	176	80.00	546.8	286	141.11
154.4	68	20.00	352.4	178	81.11	550.4	288	142.22
158.0	70	21.11	356.0	180	82.22	554.0	290	143.33
161.6	72	22.22	359.6	182	83.33	557.6	292	144.44
165.2	74	23.33	363.2	184	84.44	561.2	294	145.56
168.8	76	24.44	366.8	186	85.56	564.8	296	146.67
172.4	78	25.56	370.4	188	86.67	568.4	298	147.78
176.0	80	26.67	374.0	190	87.78	572.0	300	148.89
179.6	82	27.78	377.6	192	88.89	590.0	310	154.44
183.2	84	28.89	381.2	194	90.00	608.0	320	160.00
186.8	86	30.00	384.8	196	91.11	626.0	330	165.56
190.4	88	31.11	388.4	198	92.22	644.0	340	171.11
194.0	90	32.22	392.0	200	93.33	662.0	350	176.67
197.6	92	33.33	395.6	202	94.44	680.0	360	182.22
201.2	94	34.44	399.2	204	95.56	698.0	370	187.78
204.8	96	35.56	402.8	206	96.67	716.0	380	193.33
208.4	98	36.67	406.4	208	97.78	734.0	390	198.89
212.0	100	37.78	410.0	210	98.89	752.0	400	204.44
215.6	102	38.89	413.6	212	100.00	770.0	410	210.00
219.2	104	40.00	417.2	214	101.11	788.0	420	215.56
222.8	106	41.11	420.8	216	102.22	806.0	430	221.11
226.4	108	42.22	424.4	218	103.33	824.0	440	226.67

METAL CONTENT OF COMMON PLATING SALTS

By Nathan E. Promisel, Washington, D. C.

(Note: Technical products usually vary slightly from stated percentages.)

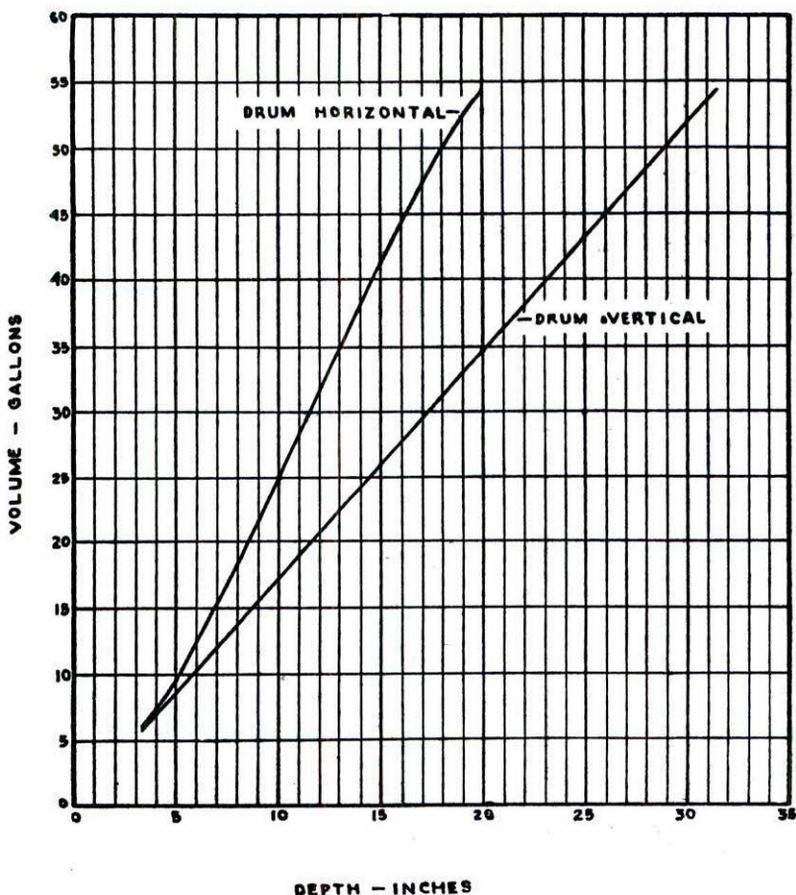
Technical Name of Salt	Chemical Formula	Per Cent Metal
Antimony trichloride	$SbCl_3$	53.4
Cadmium cyanide	$Cd(CN)_2$	68.3
Cadmium oxide	CdO	87.5
Chromic acid	CrO_3	52.0
Cobalt sulfate (anhydrous)	$CoSO_4$	38.0
Cobalt sulfate, crystal	$CoSO_4 \cdot 7H_2O$	21.0
Copper carbonate (basic)	$CuCO_3 \cdot Cu(OH)_2$	57.5
Copper chloride (ic)	$CuCl_2$	47.3
Copper cyanide (ous)	$Cu_2(CN)_2$	71.0
Copper fluoborate	$Cu(BF_4)_2$	26.8
Copper sulfate (ic), crystal	$CuSO_4 \cdot 5H_2O$	25.5
Ferrous chloride, crystal	$FeCl_2 \cdot 4H_2O$	28.1
Ferrous ammonium sulfate	$FeSO_4 \cdot (NH_4)_2SO_4 \cdot 6H_2O$	14.2
Gold chloride (ic)	$AuCl_3$	64.9
Gold chloride (ic), crystals	$AuCl_3 \cdot 2H_2O$	58.1
Gold chloride (ous)	$AuCl$	84.7
Gold cyanide (ous)	$AuCN$	88.3
Gold potassium cyanide	$KAu(CN)_2$	68.3*
Gold potassium cyanide, crystal	$KAu(CN)_2 \cdot 2H_2O$	60.8
Gold sodium cyanide	$NaAu(CN)_2$	72.5*
Indium chloride	$InCl_3$	51.8
Indium cyanide	$In(CN)_3$	59.4
Indium sulfate	$In_2(SO_4)_3$	33.7
Lead carbonate (basic)	$Pb(OH)_2 \cdot 2PbCO_3$	80.1
Lead fluoborate	$Pb(BF_4)_2$	54.4
Mercuric chloride	$HgCl_2$	73.8
Mercuric cyanide	$Hg(CN)_2$	79.4
Mercuric nitrate	$Hg(NO_3)_2$	61.8
Mercuric nitrate, crystal	$Hg(NO_3)_2 \cdot H_2O$	58.6
Nickel ammonium sulfate (double nickel salts)	$NiSO_4 \cdot (NH_4)_2SO_4 \cdot 6H_2O$	14.9
Nickel carbonate (basic)	$2NiCO_3 \cdot 3Ni(OH)_2 \cdot 4H_2O$	50.0
Nickel chloride, crystal	$NiCl_2 \cdot 6H_2O$	24.7
Nickel sulfate (single nickel salt)	$NiSO_4 \cdot 6H_2O$	22.3
Platinum chloride, crystal	$H_2PtCl_6 \cdot 6H_2O$	37.7
Rhodium phosphate, crystal	$Rh_2PO_4 \cdot 3H_2O$	29.9
Rhodium sulfate, crystal	$Rh_2(SO_4)_3 \cdot 12H_2O$	29.0
Silver chloride	$AgCl$	75.3
Silver cyanide	$AgCN$	80.5
Silver potassium cyanide	$KAg(CN)_2$	54.2
Silver sodium cyanide	$NaAg(CN)_2$	59.0
Silver nitrate	$AgNO_3$	63.5
Sodium stannate, crystal	$Na_2SnO_3 \cdot 3H_2O$	44.5
Tin chloride (ous), crystal	$SnCl_2 \cdot 2H_2O$	52.6
Tin fluoborate	$Sn(BF_4)_2$	40.6
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*Technical salts may contain appreciably less, and gold content is usually stated on container.

DRUM VOLUME CHART

The following drum volume chart will be found useful for quickly and easily determining the approximate contents of 55 gallon (34 $\frac{3}{8}$ " x 24") drums containing finishing materials, thinners, etc.

Any suitable measuring stick marked in inches, such as an ordinary yardstick, may be used. The measuring stick is inserted into the drum through the top opening (if the drum is in the vertical position) or through the side opening (if the drum is horizontal) with the one inch graduation down. Care must be taken that the stick is straight, that it is held vertically and that it touches the bottom of the drum before being withdrawn. On withdrawal, the depth in inches on the stick is noted and reference to the chart will show the approximate number of gallons of liquid in the drum.



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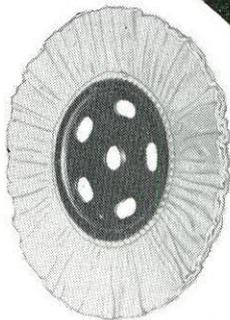
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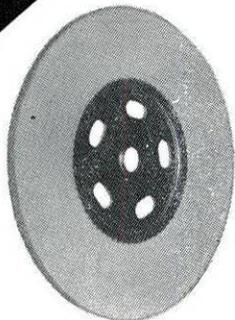
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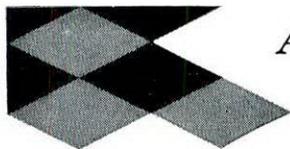
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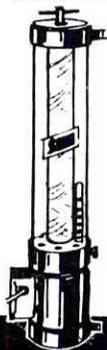
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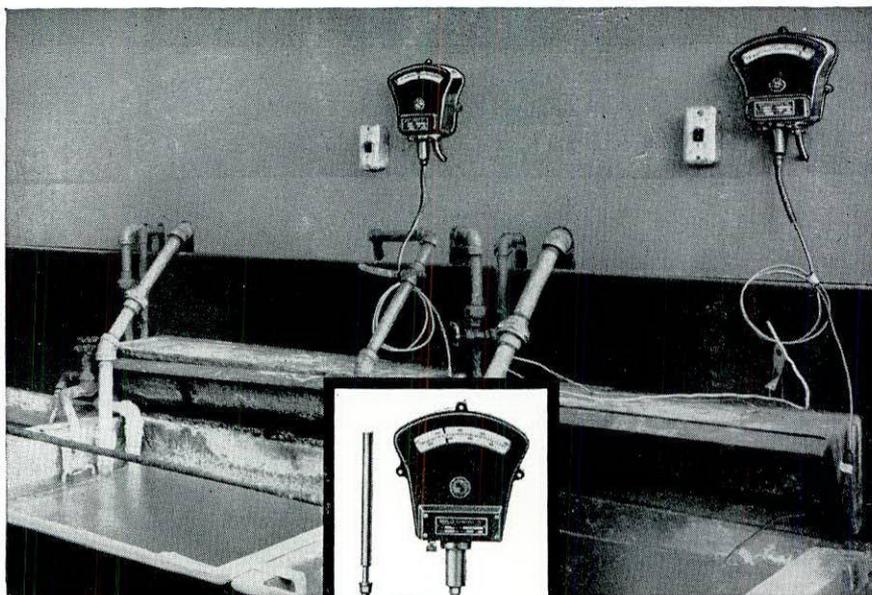
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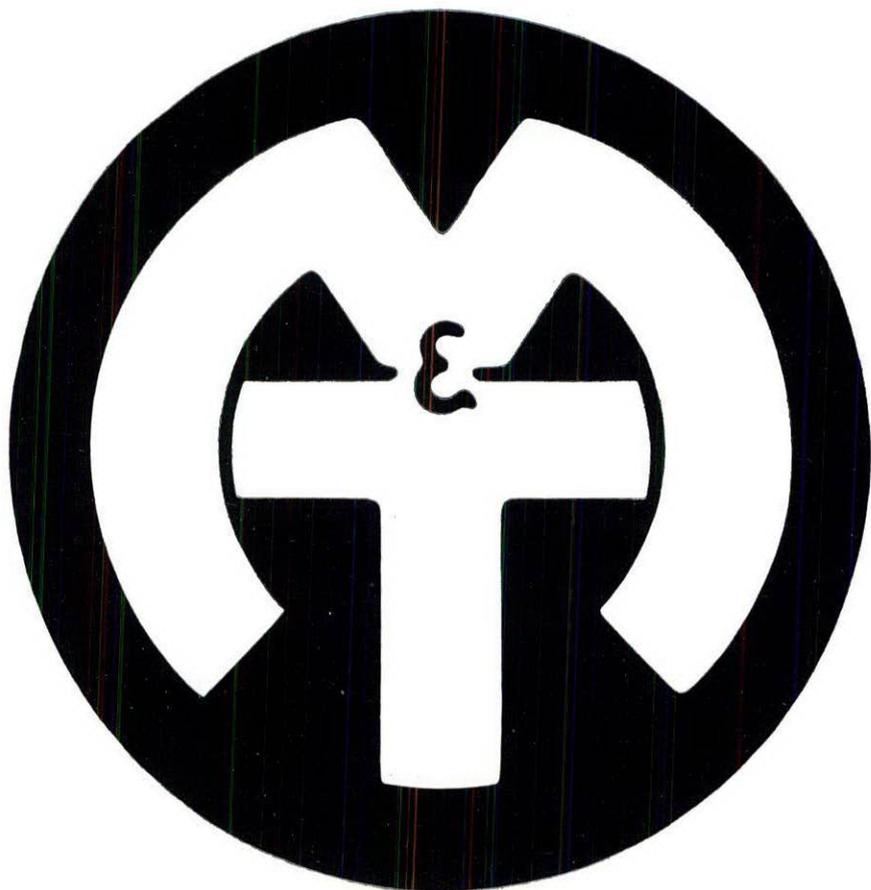
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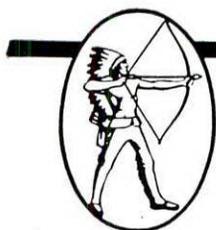
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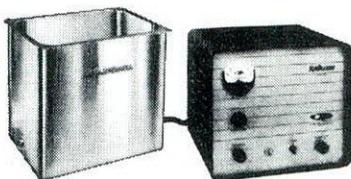
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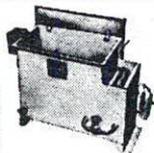
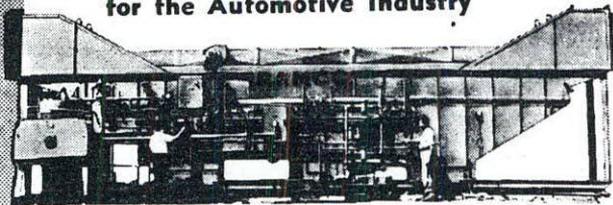
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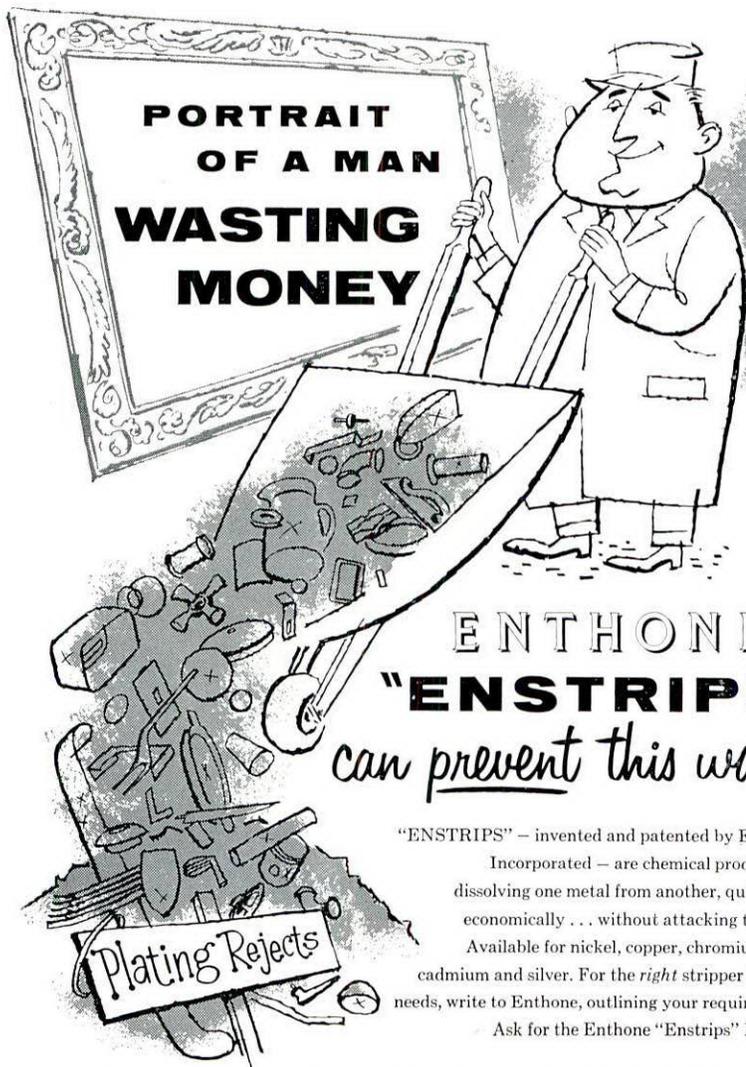
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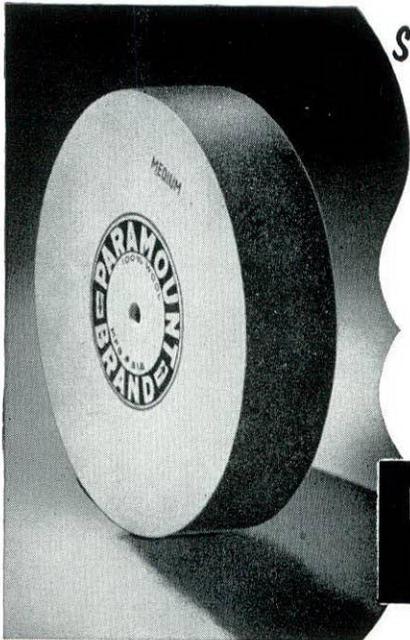
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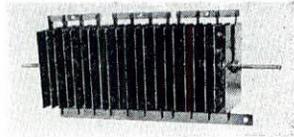
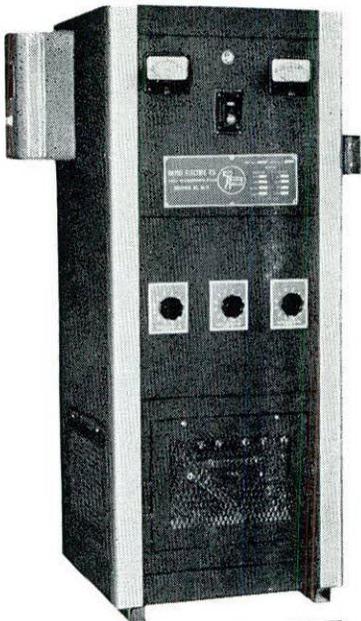
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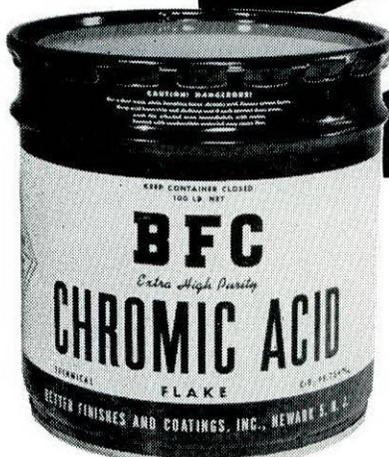
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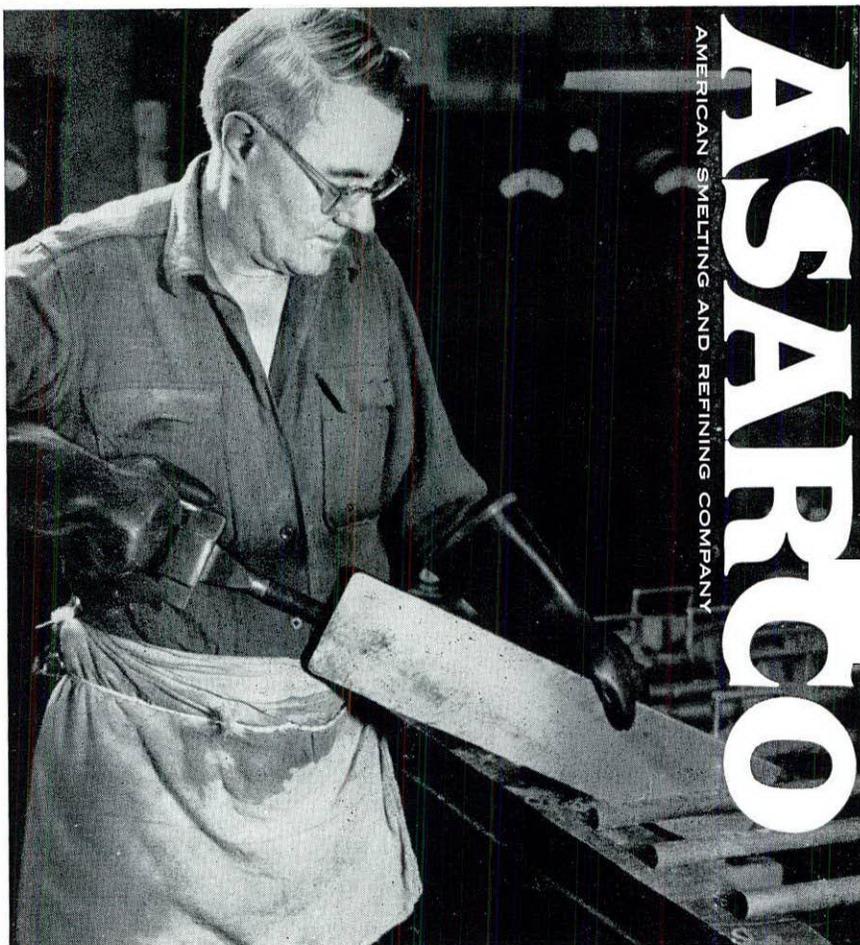
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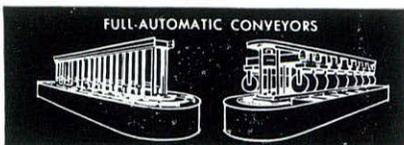
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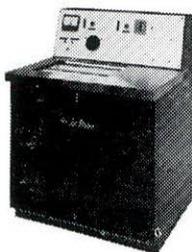
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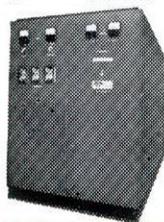
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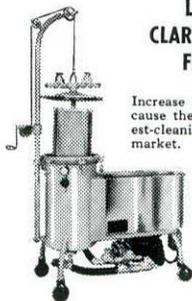
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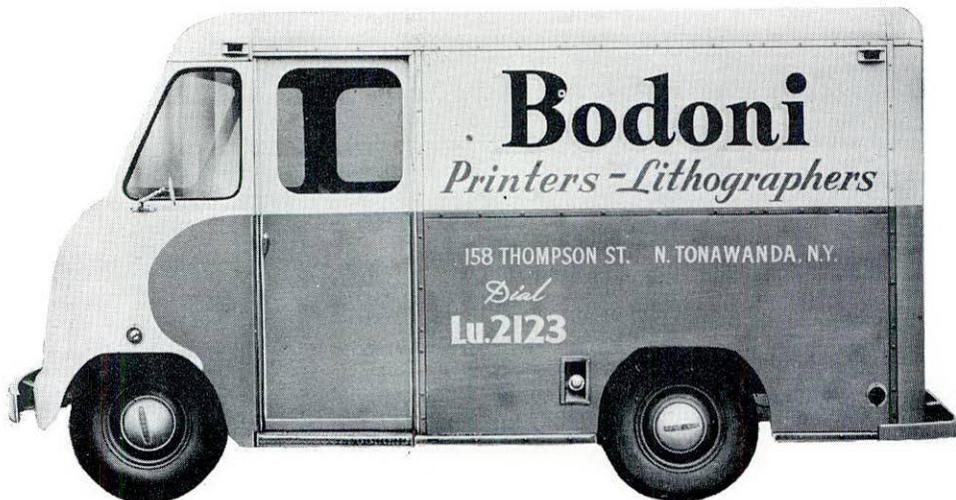
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Harshaw's research and development laboratory solved the problem of plating nickel on nickel. This, coupled with the use of a sulfur-free nickel plate and a bright nickel from a compatible bath, has made possible a Duplex deposit with unequalled corrosion resistance.

EXCELLENT CORROSION PROTECTION ACHIEVED THROUGH USE OF A SULFUR-FREE DEPOSIT

The Harshaw Chemical Company after years of research and development work was the first to find that a *sulfur-free* nickel offers greater corrosion resistance. This fact led to the development of the Harshaw Perflow nickel plating process. Further research showed that use of the sulfur-free Perflow nickel deposit as a base coating, followed by a bright nickel deposit from a *compatible* bath, would give a Duplex deposit with a further improvement of corrosion resistance. Performance data, by both accelerated tests and outdoor exposure, from leading automobile manufacturers and parts suppliers indicate that the Harshaw Perflow-Perglow Duplex nickel plate is comparable to and frequently better than, buffed gray nickel and is unequalled by any bright nickel.

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JANUARY 31, 1959
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AMERICAN ELECTROPLATERS'
SOCIETY



Dinner Menu

WEST INDIES FRUIT COCKTAIL

Relishes

CONSOMME PRINTANIERE

WHOLE ROCK CORNISH GAME HEN

Sauce Perigueux

A Medley of Fresh Vegetables

Wild Rice Forestiere

PRINCESS SALAD

White Asparagus with Sliced Tomato
on Iceberg Lettuce

FRESH STRAWBERRIES GLACE NORDICA

Vanilla Ice Cream filled with
Fresh Strawberries on a Thin Layer of Sponge Cake

Melba Sauce

Lady Finger

COFFEE

DINNER MUSIC

Priscilla Holbrook

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A CORDIAL WELCOME



On December 14th, 1912, J. H. Hansjosten welcomed members and guests to the First Annual Banquet of Chicago Branch. His committee of O. E. Servis, J. H. Hall, F. Lamereux, N. Hunter, and F. Liscomb were proud of the achievements of the "Association" in its third year and of the fact that Chicago was its seventh Branch. The "exchanges of information" have made the futures of plating about which they spoke come true.

This year, the Golden Jubilee of the A. E. S., I can only echo the voices of our founders - - - great futures in and for plating lie ahead - - - to you our members and friends - - - Welcome!

R. Scott Modjeska

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A Gala Day in the History of the N. Y. Branch

Festivities Will Start at 2:00 P.M. for Both Sexes

For the women: An afternoon of fun and frolic; tea and card party, plus a multitude of beautiful gifts and prizes. Make sure you Gals get to this one. To be held in The Georgian Room Foyer. A ladies dressing room will be made available to anyone wishing to come with additional clothes for our evening banquet.

For the men: Our Golden Jubilee Technical Session. Three excellent papers by three experts in the field. A history of nickel plating right up to the latest developments in the field (Program on back side). To be held in The Georgian Room.

Following this and until 7:15 P.M., we will give our friends a chance to relax at the cocktail party sponsored by the M.F.S.A. in the Penn Top North.

At 7:30 P.M. sharp, our Golden Anniversary Banquet will start in The Terrace Room of The Hotel Hilton-Statler. Your committee has planned a complete night of entertainment, food and dancing; a night we know you will not soon forget.

Educational Program

Chairman: MR. ARTHUR CARLSON
Librarian, N. Y. Branch

Session Begins at 2:00 P.M. in
The "Georgian Room"

1. — "Copper-Nickel-Chromium Exposure Tests on Steel" — Walter Pinner, Manager, Electroplating Development, McGean Chemical Co., Cleveland, Ohio.
2. — "Nickel Plating for the Last Fifty Years" — Dr. D. G. Foulke, Head of Research, Hanson-Van Winkle-Munning Co., Matawan, N. J.
3. — Corrosion Studies with Various Combinations of Nickel and Chromium Plate — Dr. Henry Brown, Head of Research, Udylite Corp., Detroit, Mich.

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Of the New York Branch

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American Electroplater's Society

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200 P.M.

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Program

- 1—"Copper-Nickel-Chromium Exposure Tests on Steel" by Walter Pinner, Manager, Electroplating Development, McGean Chemical Co., Cleveland, Ohio.
- 2—"Nickel Plating for the Last Fifty Years" by Dr. D. G. Foulke, Head of Research, Hanson-Van Winkle-Munning Co., Matawan, N. J.
- 3—"Corrosion Studies with Various Combinations of Nickel and Chromium Plate" by Dr. Henry Brown, Head of Research, Udylite Corp., Detroit, Mich.



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OFFICE OF THE GOVERNOR

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G. MENNEN WILLIAMS
GOVERNOR

January 30, 1959

TO THE MEMBERS OF THE
AMERICAN ELECTROPLATERS SOCIETY:

As Governor of Michigan, it is my great pleasure to send the greetings and best wishes of the people of our great state to the American Electroplaters Society on the occasion of its Golden Jubilee.

It will be the privilege and honor of Michigan citizens to host the 50th Anniversary Convention of the American Electroplaters Society in June, 1959. It is fitting that the Motor City of Detroit and the state that literally put the world on wheels should enjoy the distinction of hosting this Golden Jubilee Convention. The numerous contributions that the Society and its members have made to increased scientific knowledge and improved technology have had a broad impact on the national economy. Through your efforts and accomplishments we today enjoy better products and a high standard of living.

You will find in Detroit a dynamic industrial complex. Much of this springs from the work of members of your Society in the electroplating, metal finishing and allied arts. I know you will find superb hospitality and a rewarding experience as you convene in Detroit this June. It is my sincere hope to greet you at that time and extend, in person, the best wishes of Michigan and its people.

Sincerely,

A handwritten signature in green ink, reading "G. Mennen Williams".

Governor

PROCLAMATION

City of Detroit . Executive Office

LOUIS C. MIRIANI
Mayor

AMERICAN ELECTROPLATERS' SOCIETY WEEK

June 15-19, 1959

- WHEREAS The American Electroplaters' Society (AES) and Educational Society, currently composed of members residing globally, the bulk of whom are respectively grouped in 50 chartered branches in the United States, 5 in Canada and 3 in Australia, is observing its Fiftieth Anniversary, and
- WHEREAS AES has for five full decades dedicated itself to the enrichment of knowledge and advancements in electroplating, metal finishing and allied arts, and its educational activities have included a broad research program involving projects conducted at a number of American and Canadian universities and foundations that have fostered and benefitted the public interest, and
- WHEREAS AES members are scattered throughout our country's automotive, aircraft, electrical and other industries engaged in metal finishing and, therefore, every individual of our nation comes into contact every day with the myriad of products that have been developed or produced by them, ranging from missiles, aircraft and automobiles to fountain pens, safety pins and other common household products, and
- WHEREAS The Society will climax its Golden Jubilee by a large scale Golden Jubilee Convention and Industrial Finishing Exposition, including the Fifth International Conference on Electrodeposition and Metal Finishing that will be held in Detroit, June 15-19, 1959, and that will draw to our municipality the leadership and rank and file of that industry from all over the world:

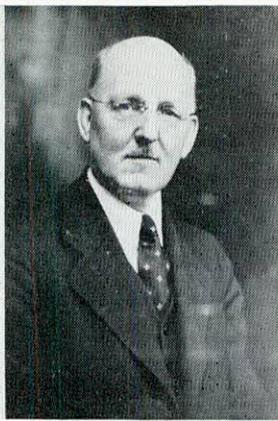
THEREFORE, I, Louis C. Miriani, Mayor of Detroit, do hereby proclaim the week of June 15-19, 1959, as AMERICAN ELECTROPLATERS' SOCIETY WEEK in Detroit, and I urge all the citizens of our community to honor and salute this time-tested enterprise that, nationally is currently observing its Golden Jubilee of public service.



Louis C. Miriani
Mayor



Charles Henry Proctor
NEPA Founder-President



George B. Hogaboom
First President, AES
(1913-1914)



Herberth E. Head
National President,
(Golden Jubilee Year)

AES at Its Half Century Milepost

By John P. Nichols, Executive Secretary
American Electroplaters' Society, Inc.
Newark, N. J.

A half-century ago, American Electroplaters' Society, Inc. (AES) that is currently observing its Fiftieth Anniversary with a Golden Jubilee of international stature, was born for the exclusive purpose of stimulating knowledge and advancements in electroplating, metal finishing and allied arts. Like the many other enterprises of our nation that have built heritage and record by service, it developed from modest beginnings to its present estate in consequence of step-by-step accomplishment.

Outgrowth of National Electro-Platers Assn.

As the National Electro-Platers Association of the United States and Canada (NEPA), the AES was created by 60 Charter Members back in 1909 when the United States itself had a population of about 90 million, with less than 200,000 automobiles and 6,000 trucks then on its assembly lines. Each of its founding fathers was a master plating foreman.

From this New York creation, NEPA branched to Philadelphia where a Branch was originated in 1910. It entered the Middle West some two years later. It became international in stature with the birth of its Toronto Branch in 1912. By 1913, NEPA numbered 13 Branches.

So as to broaden its base for greater growth, NEPA became today's AES in 1913, the transition formally occurring in New York on June 1, 1913 at AES's First National Con-

vention. There, with NEPA Founder-President Charles Henry Proctor himself presiding, the Delegates of its 13 chartered Branches transformed NEPA into today's AES. At that first Annual Meeting, Delegates elected AES's first National Officers tapping the late George B. Hogaboom as the Society's first National President.

As AES, still a New York corporation at this stage and still mainly composed of foremen platers, the Society continued to burgeon steadily — through World War I — through the storied Nineteen Twenties that followed that world conflict.

First Research Project in 1929

Numbering some 1500 members and 25 Branches by 1929, AES spanned the American continent that year by penetrating the Pacific Coast with a chartered Branch at Los Angeles. That same year, it also completed its first AES Research Project. In 1930, it became a New Jersey Corporation.

Then came depression — the New Deal — World War II. And in 1944, one of those chaotic World War II years, it spread its Branch wings "Down Under" by chartering a Branch in the Commonwealth of Australia.

Society's Growth Since Second World War

End of World War II sparked AES's halcyon 12-year period to date. Between 1946 and 1958, its chartered Branches swelled from 38 to 58. Its membership, in all classifications, mounted from about 4,000 in 1946 to nearly 8,000 at year-end 1958. It entered our nation's South-

east with its Southeastern Branch in 1947 and penetrated the Southwest with its Dallas-Fort Worth Branch in 1951.

Its "Monthly Review" became today's PLATING MAGAZINE in 1948. And in that same year, its current Constitution and Bylaws were adopted by the Supreme Society thus giving the "metal finisher" and the "metal finishing supplier" equal status in AES membership thereby setting the scene for AES's broader destiny ahead.

As AES observes its Golden Anniversary, it has nearly 8,000 members, in all classifications, residing globally, the overwhelming bulk of whom compose the Society's current 58 chartered Branches. These are coordinated and serviced by its National Headquarters located in Newark, N. J. Five of them are located in the Dominion of Canada — three are in the Commonwealth of Australia — fifty span the United States from coast-to-coast and border-to-border. At least two additional Branches are currently in the process of formation.

Moreover, 26 of today's AES Branches are respectively grouped into five regional organizations, namely the Midwest Group; the Tri-State Group, the Empire State Group; the New England Group, and the young but dynamic Dixie Group that hosted AES's two-day Fiftieth Anniversary midwinter meeting in Atlanta, Georgia, February 13-14, 1959. A sixth regional group is now in the planning stage encompassing the Society's Dallas-Fort Worth, Kansas City and Wichita Branches.

plating management, June 1959

every time the man moves down the line he handles two racks. The part is quoted at 70 units per hour, or 1680 pieces per hour.

The people involved to run that part: three people in the racking department; six people on the line; one person on racking; and three on the inspection conveyor; making a total of \$1.268 per hundred.

Again, going back to our departmental costs, the manufacturing expense in this instance amounts to 200% of the direct labor. This part is plated only with its scrap allowance of 5%, for \$5.20 a hundred. The actual cost of buffing and plating amounts to \$13.81 a hundred.

The part is currently in production at a little bit more than the price I have quoted.

The actual selling price is \$14.50 per hundred for the plating and buffing, and the part is sold to one of the leading appliance manufacturers in the United States. We supply the part complete, including the casting, to that particular customer.

MR. SIEGEL: You furnish the casting?

MR. ACKS: Yes. We have three to four die casters who work with us.

MR. SIEGEL: You are purchasing the casting?

MR. ACKS: Yes.

MR. SIEGEL: How do you arrive at a selling price for the finished part? I know the cost of the plating. Do you have machining operations on the castings?

MR. ACKS: The part comes in complete, ready for plating from the die caster. Now, occasionally we get into some assembly work afterwards and, again, that is carried out accordingly. We have a price breakdown for the castings as released, lots of 1,000, 2,000, 2500 and over. We have a 5% handling charge for the castings plus a freight factor, and that constitutes the selling price for the casting alone. This is why we use this figure of 5% to 40% to make allowances for rejects for the particular type of castings we are running. If we are at fault for the reject, we pay for the casting.

MR. SIEGEL: You don't send any back to the casters?

MR. ACKS: Yes, we do. Every casting that is brought into the plant is returned to the casters, with in-

Defense Dept. Attacked on Subcontracting Inequities

Job platers and other small firms suffer close to one-third decline in prime contracting dollars

A bitter denunciation of the Defense Department's subcontracting program was voiced recently by many small business witnesses at hearings conducted by the Senate Select Committee on Small Business on Government procurement.

Senator Harrison A. Williams (D-NJ) derided the DOD for not conducting a thorough study of military subcontracting at a time when "prime contract dollars going to small firms declined by almost one-third." The freshman Senator from the Garden State declared that "this

structions. We can illustrate a little better with the other part that is being examined, the large radio bezel (Illustration "B"). On the particular small handle you see, we have no rejects because we supply the part to the customer both plated and polished for paint.

MR. SIEGEL: Those small pieces that you furnish polished, ready for painting, you can take the ones that would be rejected for plating and send them out for painting?

MR. ACKS: Yes.

MR. COOMBES: I may be out of order on this question at this time. It happens that your line of business is so close to ours, I am wondering if you do the same type of work by castings and sell the complete article. In the last five years we have been doing a lot of that. I would like to ask if your automatic polishing or semi-automatic, whichever it is on your racks, when you quote these jobs, do you quote the tooling separate to your customers and give them a choice of whether you will absorb it in the job or in the particular purchase order for quantity, or do you charge them for tooling?

MR. ACKS: We attempt to charge for tooling, and in about 90 per cent of the cases we are successful.

(Continued next month)

makes it all the more important to discover why small business subcontractors are not faring equitably and to recommend how this trend can be reversed."

One witness — Carl G. Hokanson, president of an air conditioning firm — predicted that in five years only 10% of present subcontractors will be in business. Large contractors, he asserted, are being permitted "to sound the death knell of small business by a) mergers, b) making components formerly subcontracted, c) proselytizing engineering personnel and know-how, and d) pirating successful small subcontractor's designs."

It is being speculated in some quarters that subcontracting will be returned to Government agencies from prime contractors as a result of the many abuses by some contractors.

1960 NAMF Conclave in L. A. Changed to July 24-26

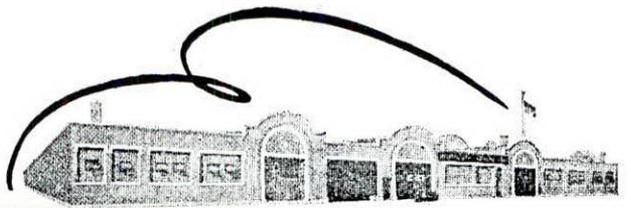
Demos' Meeting Preempts Original July 10-12 Dates

The National Association of Metal Finishers has announced a change in the 1960 convention dates following the recent announcement of the national convention of the Democratic Party in Los Angeles on the originally scheduled NAMF dates. According to George W. Taylor, NAMF president, the new dates approved by the Executive Committee are July 24 to 26, 1960.

Host branch is the Metal Finishing Association of Southern California. All convention events, including the annual meeting and management seminar, will be held at the Hotel Statler, Los Angeles.

Berteau-Lowell

PLATING WORKS



NICKEL, COPPER, CHROMIUM,
BRIGHT NICKEL, BLACK NICKEL, SILVER,
ZINC, CADMIUM, TIN PLATING,
POLISHING AND BUFFING

2312-28 W. FULLERTON AVE. ● ARMITAGE 6-3135 ● CHICAGO 47, ILLINOIS

APRIL 26, 1956

HARDWOOD LINE MFG. CO.
2022 N. CALIFORNIA AVE.
CHICAGO 47, ILLINOIS

ATT: MR. ANGELO LAZARO, PRESIDENT

DEAR SIR:

AS PER YOUR REQUEST WE DO HEREWITH PERMIT FOR YOU TO USE THE FOLLOWING INFORMATION AS PUBLICATION MATERIAL.

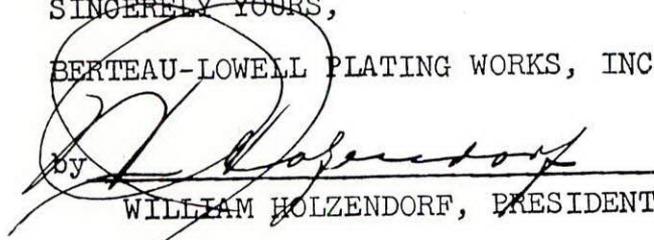
WE HAVE NOW TO DATE PURCHASED SIXTY "LAZO" 2SHOMC-2 14" X 30" LUCITE PLATING BARRELS AND CAN HIGHLY RECOMMEND "LAZO" PLATING BARRELS. HAVING USED "LAZO" PLATING BARRELS FOR THE PAST TEN YEARS HAS MADE IT POSSIBLE FOR US TO ESTABLISH A RECORD FOR SERVICE TO OUR CUSTOMERS. "LAZO" BARRELS FOR US HAVE REDUCED THE COST FOR BREAKDOWN AND REPLACEMENT PARTS TO A MINIMUM.

I WOULD LIKE TO ADD FOR YOUR FIRM, AS ONE OF THE ORIGINATOR'S, THAT FOR THE 20th CENTURY, THE PLATING INDUSTRY'S FINEST DEVELOPMENT IS THE LUCITE PLATING BARREL.

SINCERELY YOURS,

BERTEAU-LOWELL PLATING WORKS, INC.

by


WILLIAM HOLZENDORF, PRESIDENT

WH/am

AES "Exclusively Educational"

Exclusively an educational Society, AES, today as always, is mainly composed of individuals. And today's thousands of AES members are engaged in practically every facet of industrial, educational, governmental and other technical and scientific enterprise. They are scattered throughout the automotive, aircraft, electronics, electrical and other industries engaged in metal finishing. Every user comes into contact every day with the myriad of products that have been developed and produced by them. These range from missiles and aircraft and automobiles to fountain pens and safety pins and other common household products.

For mutuality in matters of common interest beneficial to the industry and to the public interest, moreover, the progressive business enterprises of the industry are themselves members today of well-established trade associations. The metal finishing enterprises comprise the growing National Association of Metal Finishers (NAMF). The metal finishing suppliers compose the Metal Finishing Suppliers' Association (MFSA). Each of these has a dynamic Association program in progress that is surely beneficial to its membership and to the industry at large.

A prominent feature among AES's educational activities fostering technical and scientific enrichment is its Research Program embodying research projects on specific electroplating and metal finishing subjects currently being conducted at Columbia University, University of Pennsylvania, National Bureau of Stand-

ards and other American and Canadian Universities and foundations.

Indeed, three additional research projects are being contemplated beamed to foster further metal finishing or coating knowledge.

Record Attendance Expected in Detroit

The Society's Golden Jubilee Convention in Detroit, June 15-19, 1959, climax of its Fiftieth Anniversary observance, is expected to draw AES history's largest assembly of AES members and their families and guests, including many scientists and visitors from distant lands. These will enjoy outstanding educational and relaxational fare, including conducted tours of the motor kingdom's famed industrial plants and a six-day versatile Ladies Program.

Its Industrial Finishing Exposition, another educational element of its Golden Jubilee Convention, has marshalled the largest number of industrial company exhibitors in this field's lifetime, and these will display their current equipment and processes before the AES's largest exposition traffic.

AES's concurrent International Conference on Electrodeposition and Metal Finishing, educational sessions phase of its Golden Jubilee Convention, will offer eleven sessions featuring 44 technical and scientific papers presented by authorities from ten countries, including the United States, England, France, Germany, Canada, Australia, India, Switzerland, Holland and Italy. A high spot of the International Conference will be the first "William Blum Lecture". It will be delivered by Dr. William Blum himself, first winner of the

AES Scientific Achievement Award, the Society's highest scientific honor.

Golden Jubilee: A Step Into AES's Tomorrow

Arrival of AES at its first half-century milestone is not only enabling AES to measure its growth and development and to give visible thanks for its progress through its Golden Jubilee observance at national, regional and municipal levels but also to apply the lessons learned from its yesterday to help meet the challenge of its today and its tomorrow. END

All Types Of Metal Finishing To Be Shown At NAMF Booth At 5th Industrial Finishing Exposition

Other features include Plating Management, membership, and rotating satellite exhibit

The National Association of Metal Finishers will represent the job plating industry in an attractively designed booth at the forthcoming Detroit exposition.

Located in position 138-C, the booth will feature hundreds of finished parts prepared by A. T. Leonard of Superior Plating, Inc., Minneapolis, incorporating the many types of processes and finishes performed by NAMF members.

Information about local affiliates as well as objectives and accomplishments of the NAMF will also be displayed. NAMF-owned *Plating Management* will also command attention at the Association booth during the 4-day industrial finishing exposition at the Detroit Armory, which starts June 16.



AES's CHARTER MEMBERS HONORED at mother branch's half-century commemorative. Greeted by then-Governor Averell Harriman and Mayor Robert F. Wagner, AES's New York Branch observed its Fiftieth Anniversary with a memorable commemorative held at the Statler Hotel, New York, February 7, 1959. (Above left) Part of the audience that attended that day's Educational Session. (Right) Two of the Society's Living Founding Fathers honored at the gala banquet.

(Left to right seated) Mrs. Stremel; Founding Fathers Justus A. Stremel and Harry C. Bernard. (Rear) Educational Chairman Arthur E. Carlson; AES Second Vice President W. Andrew Wesley; National President Herberth E. Head; Past Presidents Francis T. Eddy and Walter L. Pinner. Absent were Charter Members Edward W. T. Faint; William Schneider and Frederick F. Pierdon, balance of AES's living founders.

IN APPRECIATION . . .

. . . for the support given our program — thus assuring continuing technical advancement in the Science of Electroplating.

Allied Research Products

Ardco, Inc.

The Buckeye Products Co.

F. L. & J. C. Codman Co.

Davies Supply & Mfg. Co.

The Diversey Corp.

E. I. duPont deNemours & Co., Inc.

Enthone, Inc.

Globe Chemical Co.

Hanson-Van Winkle-Munning Co.

The Harshaw Chemical Co.

Kelite

The Lea Manufacturing Co.

Chas. F. L'Hommedieu & Sons Co.

Macdermid Incorporated

The McGean Chemical Co.

Metal & Thermit Corp.

Michigan Chrome & Chemical Co.

Northwest Chemical Co.

Oakite Products, Inc.

Parker Rust Proof Co.

Pennsalt Chemicals Co.

Platers Supply Co.

Promat Div., Poor & Co.

Rack Processing Co.

Sel-Rex Corporation

Frederic B. Stevens, Inc.

The Udylite Corp.

Bill Young & Co.

TRI-STATE REGION

AMERICAN ELECTROPLATERS' SOCIETY



Menu

RAVIGOTE OF SALMON

GARDEN RELISH

ROAST TOP SIRLOIN OF BEEF, AU JUS

BAKED IDAHO POTATO WITH SOUR CREAM SAUCE

JULIENNE OF STRING BEANS

KENTUCKY BIBB LETTUCE

SAGE OR THOUSAND ISLAND DRESSING

SHERATON ICE CREAM CAKE ROLL

ASSORTED ROLLS WITH BUTTER

BEVERAGE

Favors for the Ladies



WELCOME

A cordial Welcome is extended to all who attend this Fifth Annual Meeting.

Today the Tri-State Region of the American Electroplaters' Society completes its first cycle of these annual meetings.

May this be only the first of many such cycles which will lead to greater technical advancement, meeting of new friends and enjoyment of old.



TRI-STATE REGION OF THE
AMERICAN ELECTROPLATERS' SOCIETY

PRESENTS ITS

Fifth Annual Program

2:00 P.M. — EDUCATIONAL SESSION

OPENING ADDRESS by MODERATOR

Herbert E. Head, Honorary Chairman
President of the National Society

EDUCATION

Dr. Henry Brown

Udylite Research Corp.

"MECHANISM OF ELECTRODEPOSITION
WITH Ni & Cr AND THE CORROSION
RESISTANCE OF THESE DEPOSITS"

Eugene L. Combs

Diamond Alkali Company

"CHROMIUM PLATING UP-TO-DATE"

James H. Peacock

The Duriron Company

"METALS AND PLASTICS FOR HANDLING
PLATING SOLUTIONS"

LADIES' PROGRAM

2:00 P.M. DESSERT LUNCHEON

Followed By

"WHAT EVERY WOMAN SHOULD KNOW —
ABOUT CHARM" by Miss Eleanora of Alix Adams
Model Agency
Door Prizes

EVENING PROGRAM

6:00 P.M. SUPPLIERS RECEPTION

7:00 P.M. SHARP DOOR PRIZE DRAWING AND
BANQUET

Winner must be present in Ballroom
General Electric Designer Series Portable 17" TV
Compliments of Major Appliance Division
General Electric Company, Appliance Park

8:00 P.M. ENTERTAINMENT

Master of Ceremonies — JOHNNY MATSON
George and Betty Johnston — Comedy Magic
Marlene Fields — Acrobatic Dancer

DANCING

9:00 - 12:00

Music by Bob Hutsell

Please Wear A.E.S. Tag throughout Evening's Entertainment

REPRESENTATIVES OF TRI-STATE REGION

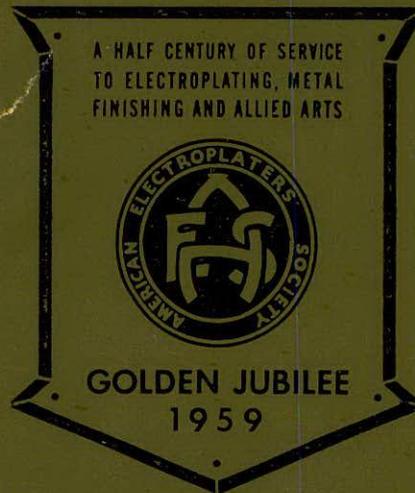
CINCINNATI, OHIO	COLUMBUS, OHIO
ROGER WINTERMAN	RUDY SKRILETZ
L. J. HOWALD	HANS GERNES
DAYTON, OHIO	INDIANAPOLIS, IND.
H. C. LUECHAUER	LES REYNOLDS
J. V. BAKER	QUENTIN SHOCKLEY

CUSTODIAN OF FUNDS
ROBERT BRUCK

LOUISVILLE HOST BRANCH
COMMITTEE

Chairman	Ken Reifsteck
Arrangements	Al Russell, Jack Houston
Publicity	Frank Lamping
Educational Session	Stan Beyer
Entertainment	Al Russell
Favors and Ladies Program	Mary Lou Reifsteck
Tickets	Joe Muscarella, Herb Rembold
Program	Bill Dawson
Hostesses	Edith Lamping, Mildred Beyer, Rosina Muscarella, Louvita Rembold, Ann Dawson

TRI-STATE REGIONAL MEETING
AMERICAN
ELECTROPLATERS'
SOCIETY



FIFTH ANNUAL
EDUCATIONAL SESSION
AND
DINNER DANCE
SATURDAY, APRIL 4, 1959
SHERATON HOTEL
LOUISVILLE, KENTUCKY

AMERICAN ELECTROPLATERS' SOCIETY

MELBOURNE (AUSTRALIA) BRANCH

PROGRAMME 1959

February 19th—

Annual Meeting and Election of Office-Bearers. "Report on the 1958 A.E.S Convention and Anodising Practice in the U.S.A."

H. I. LITTAUER

March 19th—

"Impressions of American Plating Practice".

G. WALKER

April 16th—

"Zinc Coatings for Steel Protection".

R. N. RIDE

May 21st—

Quality Control of Electroplating — A Review of Latest Accelerated Test Procedures and their Implications to the Australian Metal Finishing Industry.

PANEL OF SPEAKERS

June 18th—

"The Art of Plating".

**B. JOHNSTON
D. SYME**

July 16th—

"Bright Anodising of Aluminium".

J. J. DALE

August 20th—

"Trends in Barrel Plating". A Discussion.

PANEL OF SPEAKERS

September 17th—

"Automatic Plating".

**J. CHRISTIAN
B. DONALDSON
C. MEAKER**

October 15th—

"What Does Polishing Do To a Metal?"

L. E. SAMUELS

November 19th—

"Safety in the Plating Shop"

L. ESMORE

December —

Annual Dinner.

Plant Visits will be arranged and Members notified.

Meetings are held in the Metallurgy Theatre,
Melbourne Technical College, Latrobe St.,
Melbourne, unless otherwise stated.

Visitors are welcome.



MELBOURNE (AUSTRALIA) BRANCH

1959			CALENDAR			1959		
JANUARY			FEBRUARY			MARCH		
S	M	T	W	T	F	S	M	T
..	..	..	1	2	3	1	2	3
4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21
22	23	24	25	26	27	28	29	30
31
APRIL			MAY			JUNE		
S	M	T	W	T	F	S	M	T
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22	23	24	25	26	27	28	29	30
..
JULY			AUGUST			SEPTEMBER		
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4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21
22	23	24	25	26	27	28	29	30
31
OCTOBER			NOVEMBER			DECEMBER		
S	M	T	W	T	F	S	M	T
..	..	..	1	2	3	..	..	..
4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21
22	23	24	25	26	27	28	29	30
31	..	..	..	..	..	..	..	..

"An Educational
Society for the
Advancement of
the Science of
Electroplating."

CALENDAR

AND

Programme of Lectures 1959

This year the American Electroplaters' Society
celebrates its Golden Jubilee — 50 years of
service to the electroplating industry.

GOLDEN JUBILEE PROGRAM

All Events at The Statler Hilton Hotel, Washington, D. C.

Afternoon

2:00 P.M. Technical Session California Room

Dr. William Blum, Chairman

1. "Causes & Remedies for the Corrosion of Nickel Chromium Coatings"

Dr. W. Andrew Wesley, Director of Research, The International Nickel Co., Inc., Bayonne, N. J.
Second Vice President, American Electroplaters' Society.

2. "Plating on Unusual Metals"

John G. Beach, Battelle Memorial Institute, Columbus, Ohio.

3. "Deposition of Less Common Metals"

Dr. Abner Brenner, Chief, Electrodeposition Section, National Bureau of Standards, Washington, D. C.

Evening

7:00 P.M. Banquet

South American Room

MENU

Supreme of Fresh Fruits

Hearts of Celery

Ripe and Green Olives

Roast Maryland Turkey

American Dressing

Cape Cod Cranberries

Candied Sweet Potatoes

New Green Peas

Mixed Green Salad

French Dressing

Chocolate Ice Cream Pie

Chocolate Sauce

Coffee

Welcome

Edward Oberland, Vice President, Baltimore-Washington Branch.

"Plating 50 Years Ago"

Fred Pierdon, Treasurer, Art Metal Finishing Co., Washington, D. C.
Charter Member, National Electroplaters' Association, Charter Member and First President (1928) Baltimore-Washington Branch.

"Founding the National Electroplaters' Association"

Justus Stremel
Charter Member, National Electroplaters' Association. Member of New York (The Society's First) Branch.

Introduction of Herberth E. Head into Order of the Pot by Kenneth M. Huston, Past President A.E.S.

"The American Electroplaters' Society Today"

Herberth E. Head, The Chrysler Corporation, Detroit, Michigan.
President of the Society. Member Detroit Branch.

Introduction of Special Guests

"Some Problems of The Space Age"

Dr. Hugh L. Dryden, Deputy Administrator, National Aeronautics & Space Administration.

Dance to Music. *Furnished by Jack Morton Production*

Door prizes will be awarded by V. J. (Josh) Hughes between dances

BALTIMORE - WASHINGTON BRANCH

Organized 1928

Chartered, January 26, 1929

OFFICERS 1958 - 1959

PRESIDENT: Carl H. Thiede, Potomac Electrotype Co., Washington, D. C.
VICE PRESIDENT: Edward E. Oberland, Western Electric Co., Baltimore, Md.
SECRETARY: Harold Scott, Capital Airlines, Washington, D. C.
TREASURER: Lancaster Lowry, U. S. Naval Gun Factory, Washington, D. C.
LIBRARIAN: Edward J. Roach, Wyandotte Chemicals, Baltimore, Md.

Past Presidents

1928 — F. F. PIERDON	1943 — S. R. WARNOCK
1929 — M. W. KRAFT	1944 — K. M. HUSTON
1930 — T. F. SLATTERY	1945 — K. M. HUSTON
1931 — W. S. EHRMLICH	1946 — A. BRENNER
1932 — A. G. PIERDON	1947 — R. GUERKE
1933 — W. GIBSON	1948 — C. BETHKE
1934 — A. D. FEWELL	1949 — F. OGBURN
1935 — A. G. PIERDON	1950 — R. STRICKLEN, Jr.
1936 — A. L. FRY	1951 — V. A. LAMB
1937 — F. F. PIERDON	1952 — G. E. BEST
1938 — W. S. EMRMLICH	1953 — V. J. HUGHES
1939 — L. L. TURNER	1954 — A. A. BENDERLY
1940 — I. H. HAHN	1955 — W. METZGER
1941 — C. G. BEETHAM	1956 — J. HORELICH
1942 — S. R. WARNOCK	1957 — E. C. BERTUCIO
1958 — C. H. THIEDE	

Past Supreme Presidents

THOMAS F. SLATTERY — 1936
KENNETH M. HUSTON — 1948

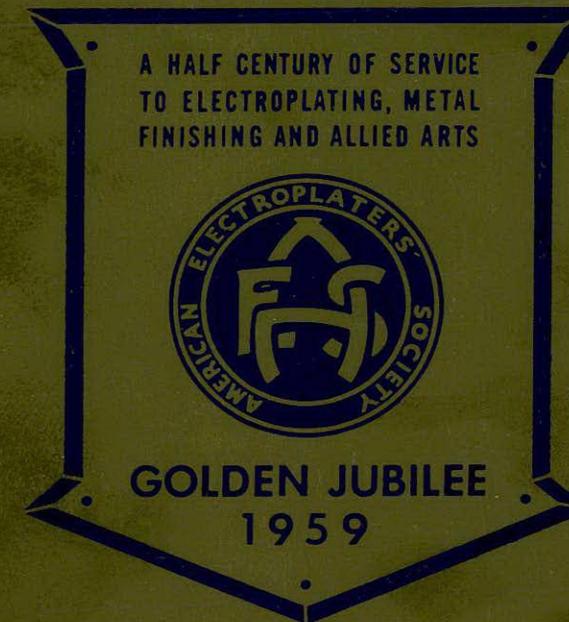
Honorary Members—AES

DR. WILLIAM BLUM
THOMAS F. SLATTERY

Golden Jubilee



Baltimore-Washington Branch A. E. S.



APRIL 11, 1959

Statler Hilton Hotel
Washington, D. C.

1959

Membership Directory

AND

By-Laws

OF THE

**Milwaukee Branch
American
Electroplaters' Society**

Meetings held first Friday of each month
September thru June

OFFICERS MILWAUKEE BRANCH

President

FRANK MARSHALL

First Vice President

SY TATERZYNSKI

Second Vice President

E. A. WARNECKE

Secretary-Treasurer

F. S. PADGETT

Librarian

WALTER HIGGS

Board of Managers

KENNETH OLSON

ARTHUR LINN

ED WEIS

Research Chairman

ED WEIS

Delegates

L. DIVELEY

F. MARSHALL

P. RITZENTHALER

Honorary Members

The Branch has four honorary members:

JOHN MISZEWSKI

JOE BIRBAUM

NICK SERVATIOUS

HENRY BORNITZKE

HISTORY MILWAUKEE BRANCH

The Milwaukee Branch A.E.S. was organized April 1, 1913, with twelve members.

The Branch has had as members such outstanding men as Dr. Watts of the University of Wisconsin, Professor Burgess of the same school, Dr. Baker of the University of Michigan, and many others who have given a great deal of their time and knowledge to our Branch.

Our Branch has held three national conventions; the first in 1924, the second in 1938, and the last one in 1949. It will again entertain the convention in 1962, along with the Midwest Regional Council.

The Branch was one of the first to organize with the organic group in 1957, to expand in the field of metal finishing.

The Branch now has 226 members, and is looking forward to a greater expansion in the future.

The following is a list of past Presidents of the Branch:

E. Weiman	1913-1915
D. Wittig	1915-1916
J. Birbaum	1916-1918
F. Marx	1918-1920
H. Armour	1920-1922
R. Goodsell Sr.	1922-1928
P. Sheehan	1928-1929
E. Werner	1929-1930
M. Nishivitz	1930-1932
P. Krause	1932-1934
P. Sheehan	1934-1935
R. Steuernagel Sr.	1935-1936
D. Rhodes	1936-1937
R. Goodsell Sr.	1937-1938
D. Rhodes	1938-1939
J. Geisman	1939-1941

R. Olson	1941-1943
R. Steuernagel Jr.	1943-1945
W. Geisman	1945-1947
T. Hartshorn	1947-1949
H. Bornitzke	1949-1950
L. Diveley	1950-1951
E. Robinson	1951-1952
K. Olsen	1952-1953
F. Anderson	1953-1954
G. Schwemer	1954-1955
H. Tessmann	1955-1957
E. Mc Coy	1957-1958
F. Marshall	1958-1959

SUSTAINING MEMBERS

Acme Galvanizing Inc.

Allen Bradley Co.

Cutler-Hammer, Inc.

Donald Sales & Mfg. Co.

Kohler Co.

Milwaukee Plating Co.

John Oster Co.

Parker Pen Co.

Racine Plating Co.

S. K. Williams Co.

Square D Co.

BY-LAWS

Milwaukee Branch

Article I

AUTHORITY

The Branch shall operate under its charter, the Constitution and By-Laws of the American Electroplaters Society, Inc. as amended and revised from time to time, and these By-Laws of the Milwaukee Branch of the said Society. These By-Laws supersede any and all others previously accepted as Branch By-Laws, but the provisions contained herein are not intended to conflict with any provision of the Constitution and By-Laws of the American Electroplaters Society, Inc. They are intended to make implicit and supplement general requirements of the Laws of the parent Society, and shall be considered as an addition thereto.

Article II

MEETINGS

Section 1

Regular meetings shall be held on the first Friday of each month excepting the months of July and August. The meeting date in any one month may be changed by a majority vote of the Board of Managers providing that the members of the Branch are notified by letter at least ten days prior to the first Friday of the month in which the meeting is to be held.

Section 2

Regular meetings shall be held in a place designated by the Board of Managers.

Section 3

The Secretary shall have mailed to each member at least ten days prior to any meeting date a notice designating the time and place of the meeting.

Section 4

Special meetings and Annual meetings may be arranged by the Board of Managers.

Article III
ORGANIZATION

Section 1

The officers of the Branch shall be: President, 1st Vice-President, 2nd Vice-President, Secretary-Treasurer, Librarian and Program Director, three Managers and three Delegates. A Delegate may also hold one of the other offices of the Branch.

Section 2

The Board of Managers shall consist of the officers and the immediate Past President.

Section 3

Election of officers shall be by secret ballot at the regular meeting, in May. At least, sixty days prior to the April meeting, the President shall appoint a nominating committee of three members in good standing, who shall select at least one or more candidates, for each office and ascertain the willingness of the candidates to serve, if elected. The nominating committee shall report its nominations at the March meeting, at which time, other nominations may be made by members in good standing, providing said member has the assurance of the nominee that he will serve if elected. Nominations shall be closed at the April meeting and the Secretary shall prepare ballots for the election at the May meeting. The President shall appoint three tellers, who shall conduct the election and announce the results. Any member in good standing shall have the right to vote.

Section 4

All officers excepting the Delegates shall be installed as the third item of business at the June meeting. The Delegates shall be installed at the September meeting.

Section 5

The officers excepting the Managers shall hold office for one year, or until their successors shall have been elected and installed. The Managers shall hold office for three years and their terms of office shall be so arranged that no more than one term of office shall expire in any one year.

Section 6

The duties of the officers shall be as provided in Article V of the By-Laws of the American Electroplaters Society, Inc. excepting that in addition thereto the following duties shall be assigned:

- (a) The Secretary shall keep accurate records of the meetings of the Board of Managers.
- (b) The Librarian and Program Director shall, with the advice of the Board of Managers, prepare a calendar of the meetings to be held during his term of office and arrange for suitable programs for those meetings.
- (c) The Board of Managers shall meet at the call of the President at least three times during its term of office. It shall elect a Membership Committee of three of its members to review applications for Branch membership received in the interim between Board Meetings.

Section 7

No officer shall receive compensation for his service excepting the Secretary-Treasurer who shall receive the sum of one-hundred dollars per year, and the Librarian and Program Director who shall be exempted from the payment of dues during his term of office. The Branch may defray such part of the expenses of Delegates as may be determined by the Board of Managers, but the amount of money so paid, shall not exceed the amount appropriated for that purpose by the members.

Section 8

The membership of the Branch shall be separated into divisions for the purpose of furthering the specific interests of the members. A member may enroll in as many divisions as he chooses. Each division may enact supplementary By-Laws to fit its needs, but in no instance may the By-Laws of a division contradict or oppose in any manner, the By-Laws of the Branch or the Constitution and By-Laws, as amended, of the American Electroplaters Society, Inc.

Section 9

Three Alternate Delegates shall be appointed by the President at the September meeting. Additional Alternate Delegates may be

appointed and accredited as the need arises. Should a Delegate fail to perform the duties of his office he shall be replaced by an Alternate upon (1) order of the President or (2) upon election of the Branch Delegates assembled at a meeting of the Supreme Society. An Alternate who has replaced a Delegate at a meeting of the Supreme Society shall continue to serve the remaining portion of the term of office of the Delegate so replaced.

Article IV

FUNDS

Section 1

The application for membership fee shall be \$5.00.

Section 2

The Annual dues of active members shall be \$9.00 and the Annual dues of student members shall be \$5.00.

Section 3

Prior to the regular meeting in September, the Board of Managers shall prepare a budget showing conservative estimates of the receipts and expenditures for the ensuing year. The President shall present the budget to the members of the Branch at the September meeting and request the appropriation of funds to make the expenditures shown in the budget. Additional appropriations may be voted at any regular meeting at the request of the Board of Managers.

Section 4

Reserve funds of the Branch shall be invested by the Board of Managers in U.S. Bonds or U.S. insured investment accounts. Such investment shall be made in the name of the Branch.

Section 5

The Secretary-Treasurer shall give a surety bond in the amount of Five Thousand Dollars (\$5,000.00). The beneficiary of the bond shall be the Milwaukee Branch of the American Electroplaters Society, and the cost of the bond shall be taken from the general funds of the Branch.

Section 6

In accordance with Article V, Section 5, of the By-Laws of the American Electroplaters Society, Inc. the Secretary-Treasurer shall receive all funds of the Branch and deposit them as directed by the Board of Managers. He shall pay all bills properly presented for payment. He shall give receipts for all monies received and require vouchers or invoices for all monies paid. He shall keep books of account correctly posted and ready for audit at any time.

Article V

Section 1

A quorum for any business meeting of the Branch shall be twenty members in good standing. If for any unforeseen reason a regular meeting cannot be held or if it is held and a quorum is not present, the business properly to be conducted at that meeting shall become the third order of business at the next regular meeting.

Section 2

A quorum for a meeting of the Board of Managers shall be five members of the Board of Managers.

Section 3

The fiscal year of the Milwaukee Branch shall at all times be the same as the fiscal year of the American Electroplaters Society, Inc.

Article VI

AMENDMENTS

These By-Laws may be revised or amended by a two-thirds majority vote of the members in good standing present at a regular meeting after the meeting at which such amendments shall have been proposed. Notice of the proposed amendments shall be given the members of the Branch with the notice of the meeting.

Submitted by,
FREDERICK F. PADGETT
Secretary-Treasurer

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(or) SO. 2-2500

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Line Material Industries
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MEYER, KENNETH J.

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Milwaukee 9, Wisconsin
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GLEnview 3-4358

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Golden Jubilee - 50th Anniversary

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20th Annual

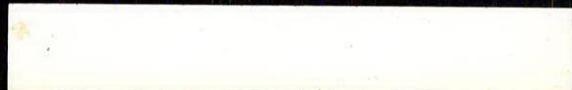
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Now that we have put away the wives aluminum snow shovels and before we get their lawn mowers in shape, we, the people, in the finishing industry are holding our New England Regional Meeting, the 20th in this pleasant series. This is the one day in the year when blistering, spotting out or a leak in a tank can be forgotten. (We hope). It is a day to have fun, gain a little knowledge, make new friends and greet old ones.

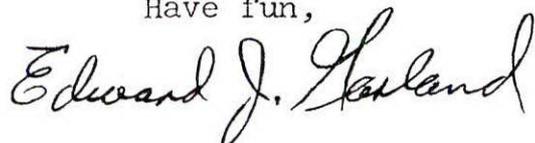
To this end the five Branches of the New England Regional, New Haven, Bridgeport, Hartford, Springfield and Waterbury, have planned a pleasant program. Bingo for the ladies, with attractive prizes, and a fine speakers program for the men. Our Hostesses will see that the ladies will be made to "feel at home". The speakers will see that the men will feel it was worth while coming, in the knowledge they will impart at the Technical Session.

From this point on all of us should start "having a ball". Cocktails will be served by the various "suppliers" in their "hospitality" room, then the annual banquet and dance.

All of this has been the prime aim of your 20th Annual Regional Committee and if everyone has a good time then our efforts have been in the right direction.

In closing just one other thought. This is the 50th Anniversary of the American Electro-platers Society. We of New England are proud to be part of this organization and salute them on their Golden Jubilee and wish them continued success.

Have fun,



Edward J. Garland
General Chairman

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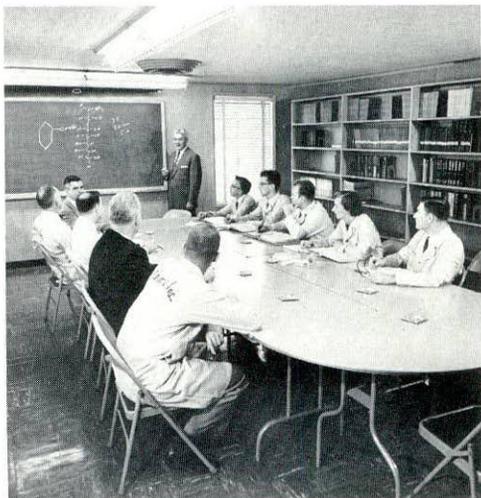
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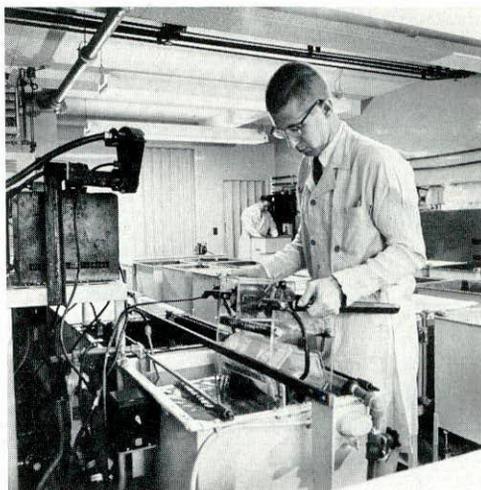
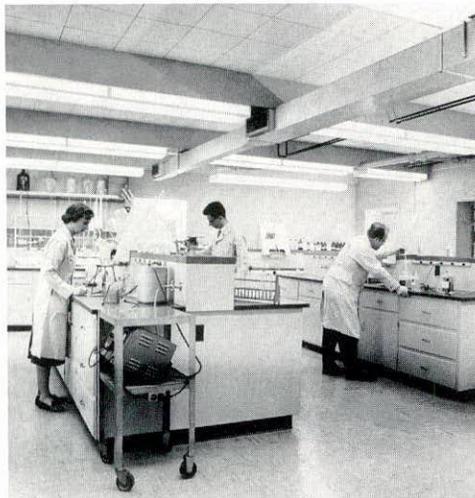
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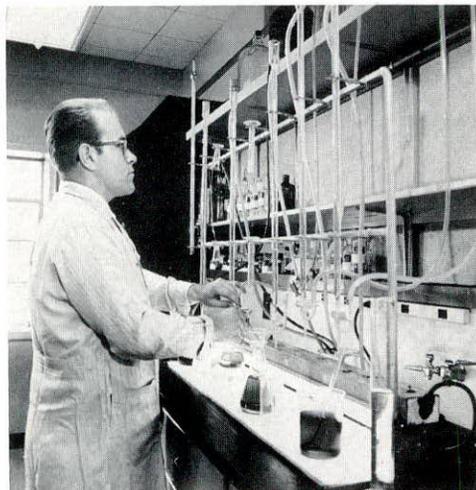
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GENERAL PROGRAM

APRIL 18, 1959 — HOTEL STATLER, HARTFORD, CONN.

REGISTRATION

12:30 to 4:00 P.M. MEZZANINE—MAIN LOBBY

EDUCATIONAL PROGRAM

2:00 - 4:30 P.M. HARTFORD ROOM

IMPRESSIONS OF RUSSIAN PLATING TECHNIQUES

by Dr. Abner Brenner, Chief Electrochemistry Section
National Bureau of Standards

ELECTROPOLISHING

by Dr. E. B. Saubestre, Ass't to Res. Director
Enthone, Inc., New Haven, Conn.

LADIES PROGRAM

2:00 - 4:30 P.M. CAPITOL ROOM

BINGO!! Prizes for winners of each game. Free Favors

COCKTAILS

5:00 - 6:30 P.M. SUPPLIERS' ROOM

DINNER

6:30 P.M. CAPITOL ROOM

DANCING

9:00-1:00 A.M. CAPITOL ROOM

THE BAKER'S DOZEN

... A MODERN CONCEPT!

When a manufacturer refers to a supplier as a "baker's dozen" organization, he's talking about that *something extra* the supplier has to offer. Superior service, modern research and engineering ability, in addition to competitive prices and quality, have come to be an important consideration in purchasing.

Today, with expenditures foremost in the minds of industrial managers, that *something extra* becomes even more important. Getting that additional *something* can often make the difference in the customers' operations.

At Udylite, we believe in giving you that *something extra*. Delivering extra service, no matter what form it may take, is an important part of our job. If you're wondering what a "baker's dozen" can do for you . . . we'd be glad to demonstrate.



detroit 11, michigan • world's largest plating supplier

TECHNICAL PROGRAM

Capitol Room

Educational Chairman . . . **MIKE TAMAS**

SUBJECT

"Impressions of Russian Plating Techniques"



SPEAKER

DR. ABNER BRENNER — Chief, Electrodeposition Section,
National Bureau of Standards.



DR. ABNER BRENNER

BACKGROUND:

Abner Brenner received a B.A. degree in 1929 from the University of Missouri, M.S. degree from the University of Wisconsin in 1930, and Ph.D. degree from the University of Maryland in 1939. He has been on the staff of the National Bureau of Standards since 1930 and is Chief of the Electrodeposition Section. Some of the subjects on which he has done research are alloy deposition, physical properties of electrodeposits, electroless plating, electrodeposition of metals from nonaqueous media, cathode diffusion layers, and thickness gages for electrodeposits.

Longer Life - Greater Production

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2,027,863; 2,094,650; 1,573,961.

Re. 19,894; 2,140,208.
Other Patents Pending.



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TECHNICAL PROGRAM

SUBJECT

ELECTROPOLISHING



SPEAKER:

DR. E. B. SAUBESTRE — Ass't to Research Director, Enthone, Inc., New Haven, Conn.



DR. E. B. SAUBESTRE

BACKGROUND:

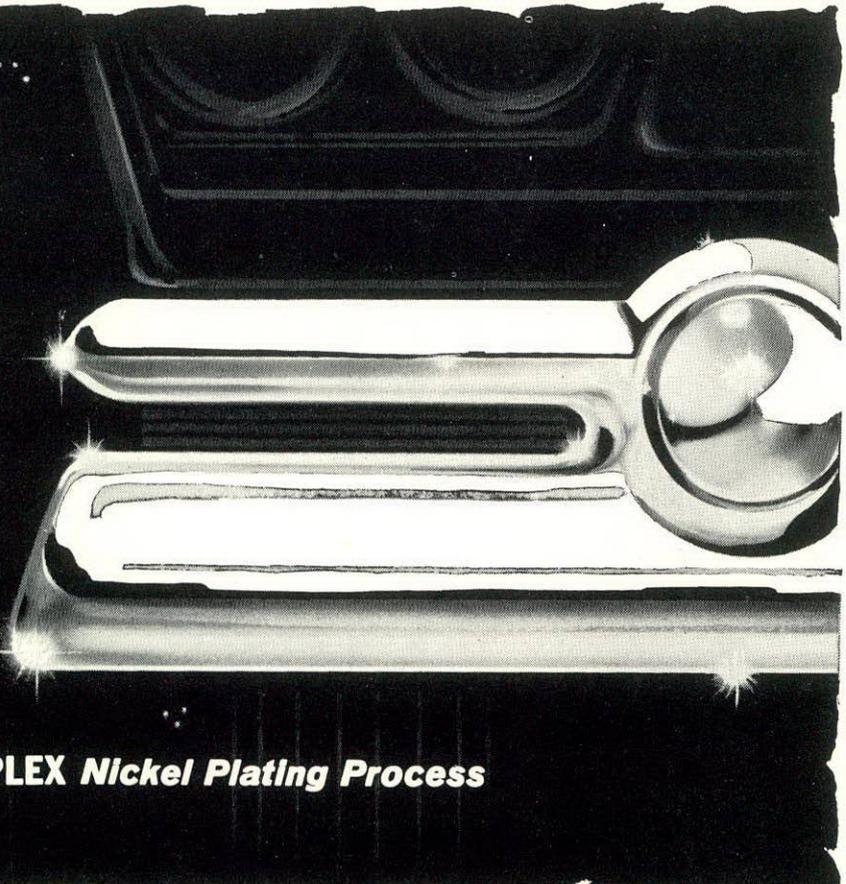
Graduated from Columbia University in 1945 with a BS degree in chemical engineering and, after serving in the U.S. Army, returned to Columbia where he received his doctorate in 1952.

While at Columbia he worked with Dr. H. B. Linford on A.E.S. Project #12 "Cleaning and Preparation of Metals for Electroplating". While associated with Sylvania Electric Products he specialized in electrochemical research and has been granted two patents on electropolishing with fourteen others pending.

He is presently president of the New York Branch of A.E.S. and is a member of ACS, ASM, AAAS, Institute of Metal Finishing, Scientific Research Society of America and the New York Academy of Science.

Dr. Saubestre is presently employed at Enthone, Inc. subsidiary of American Smelting and Refining Co., as Technical Director of Enthone Laboratories in charge of Research product development and Technical Service.

UNMATCHED CORROSION RESISTANCE



The No. 1 Feature of

**HARSHAW PERFLOW
PERGLOW DUPLEX Nickel Plating Process**

Harshaw's research and development laboratory solved the problem of plating nickel on nickel. This, coupled with the use of a sulfur-free nickel plate and a bright nickel from a compatible bath, has made possible a Duplex deposit with unequalled corrosion resistance.

**EXCELLENT CORROSION PROTECTION ACHIEVED
THROUGH USE OF A SULFUR-FREE DEPOSIT**

The Harshaw Chemical Company after years of research and development work was the first to find that a *sulfur-free* nickel offers greater corrosion resistance. This fact led to the development of the Harshaw Perflow nickel plating process. Further research showed that use of the sulfur-free Perflow nickel deposit as a base coating, followed by a bright nickel deposit from a *compatible* bath, would give a Duplex deposit with a further improvement of corrosion resistance. Performance data, by both accelerated tests and outdoor exposure, from leading automobile manufacturers and parts suppliers indicate that the Harshaw Perflow-Perglow Duplex nickel plate is comparable to and frequently better than, buffed gray nickel and is unequalled by any bright nickel.

MANY OTHER ADVANTAGES

1. Exceptionally high plating speeds —with air or mechanical agitation.
2. Excellent Chrome Coverage.
3. Unsurpassed Leveling Characteristics.
4. Outstanding Brightness.
5. High Tolerance to Impurities.
6. Excellent Adhesion.
7. Excellent Ductility at Full Brightness.
8. Simplified Control — Stable over extended periods of operation.
9. Controlled Stress.
10. Uniform Protective and Decorative plate on both steel and zinc die castings.

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LADIES PROGRAM



Greetings:

(To the tune of "Daisy")

Ladies, Ladies, welcome to you this year
'Tis our twentieth AES Regional year
So greet the gal right beside you
Admire her dress and hair-do
Then take a seat
Bring home a treat
Now best wishes to all of you.

HELEN KUSTER

2 p. m. Capitol Room

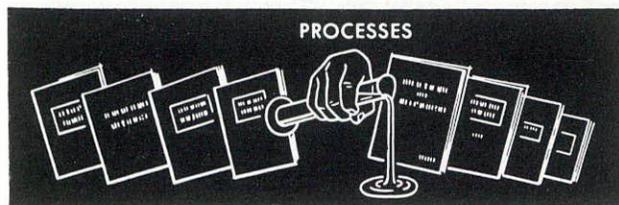
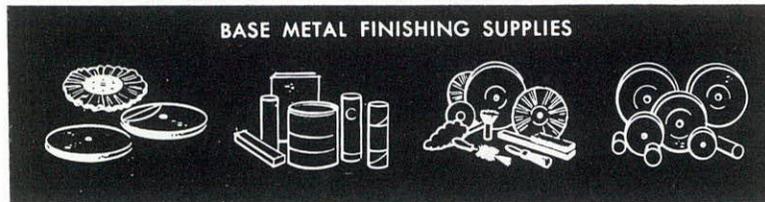
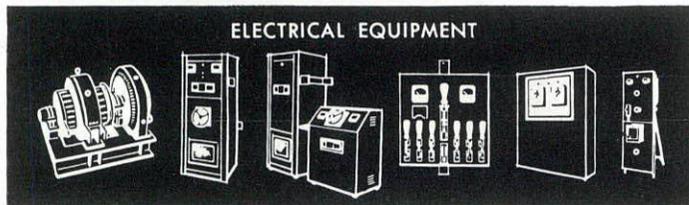
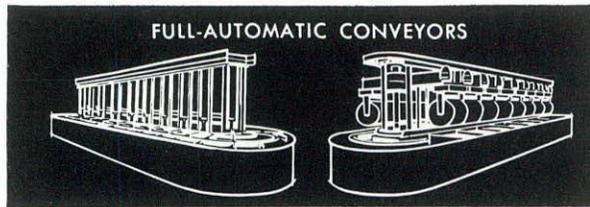
Master of Ceremonies: Robert Boulay

Chairman: Mrs. Charles Kuster — New Haven Branch

This year you will enjoy playing bingo in the spacious Capitol Room. Once again Bob Boulay of Chicopee Falls will act as emcee and each lady will receive an attractive personal gift.

Hostesses:

Bridgeport	Mrs. Michael Tamus Mrs. Allen Ferguson
Hartford	Mrs. Walter Dyber Mrs. Arnold Johnson
New Haven	Mrs. Harry Taylor Mrs. George O'Connor
Springfield	Mrs. Edward Koetsch Mrs. Charles Griffin, Jr.
Waterbury	Mrs. Frank Tirendi Mrs. Henry Strow



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Waterbury, Conn. | W. D. MAC DERMID CHEMICAL CO.
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NICKEL ANODES Seycast 99%+, Rolled DePolarized 99%+, Rolled Carbon 99%+.

CUSOL Copper Electroforming Process, and for printed circuit copper plating. Pat. No. 2,871,173.

ELECTRO CHEMICAL SUPPLIES DIVISION
THE SEYMOUR MANUFACTURING Co.
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DINNER -

CAPITOL ROOM 6:30 - 9 P. M.

Menu

Fresh Fruit Cup Florida

Hearts of Celery

Ripe and Green Olives

French Onion Soup

* * *

ROAST TOP SIRLOIN OF BEEF

* * *

String Beans Amandine

Delmonico Potatoes

Mixed Green Salad French Dressing

Statler Ice Cream Pie

Strawberry Sauce

Coffee

Rolls and Butter

Entertainment

DANCING

9 - 1:00 A.M.

CAPITOL ROOM

After that delectable meal there will be dancing to the dreamy music of William Glenny's Orchestra.

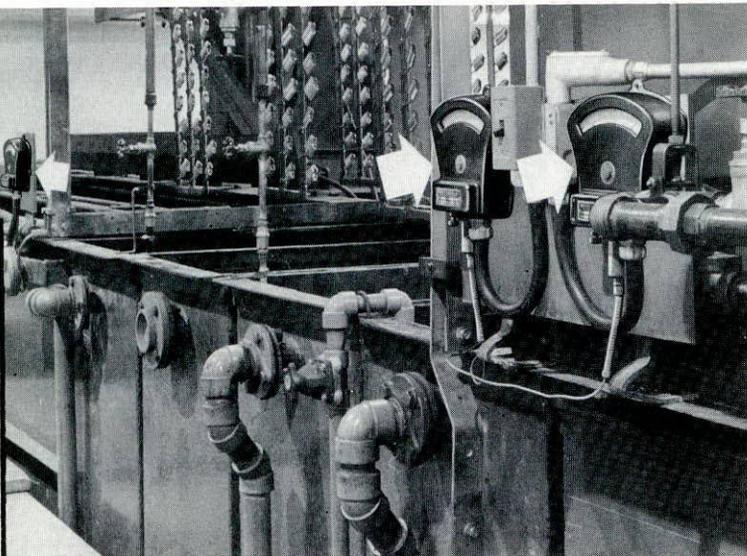
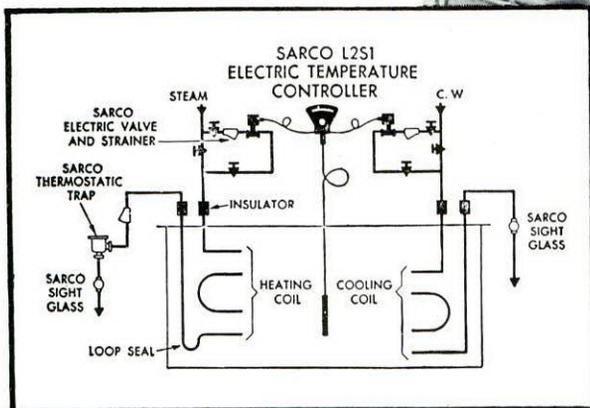


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JUNE 15 - 19, 1959

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Improve plating quality—cut your costs with low-cost temperature control

Unstable bath temperatures . . . the result of erratic manual temperature control . . . are sure to lead to costly rejects, wasted man-hours and breakdown of plating solutions.

You can solve these problems at *low cost* . . . by installing always-reliable Sarco Automatic Temperature Control. Just think . . . a complete Sarco System is yours for as little as \$130 a tank!

1. **You improve plating quality** because creeping temperatures are a thing of the past.
2. **You lower rejects** because solutions are held automatically to

pre-set temperatures. No chance for human error to mess up a tankload . . . and cut into profits.

3. **You get better utilization of time**—platers are able to concentrate on their plating work. No worrying about bath temperatures. No turning on and off of valves.
4. **You save plating solutions**—because automatic control prevents boil-off caused by overshooting temperature.

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**A COMPLETE SYSTEM
FOR AS LITTLE
AS \$130 A TANK!**

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Easy-to-read controller dial clearly indicates temperature being maintained. Temperature setting quickly changed by turning one knob.

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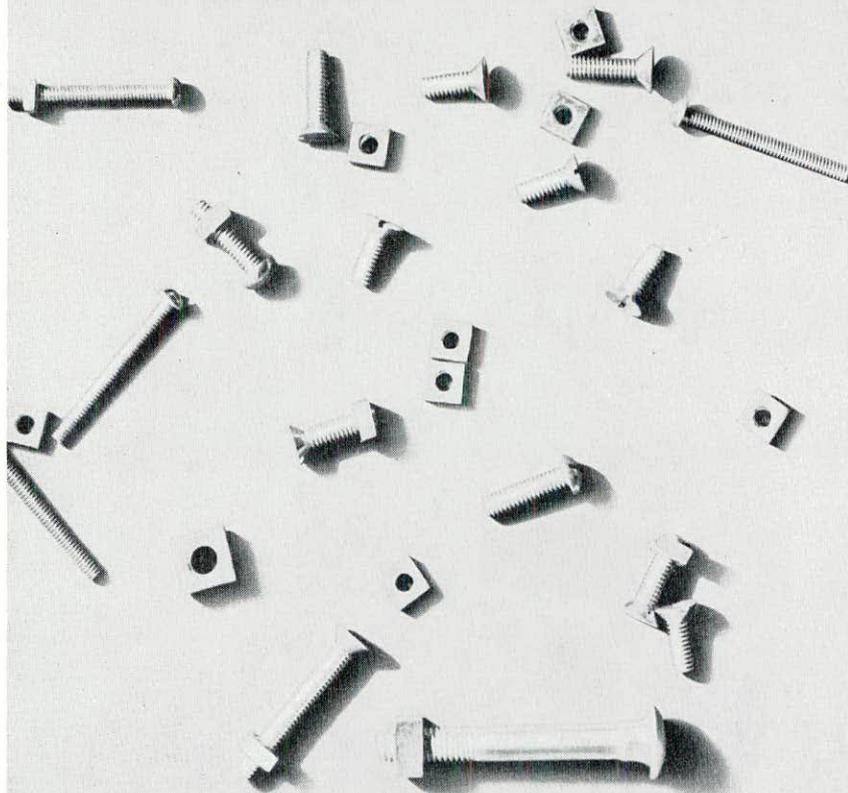
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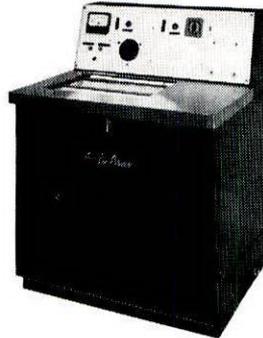
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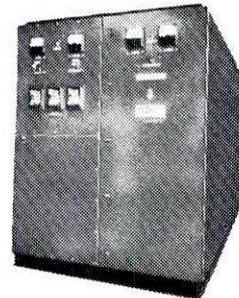
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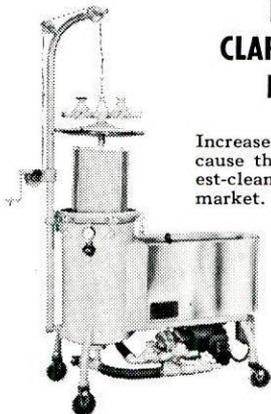
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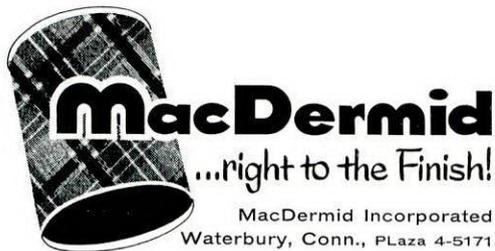
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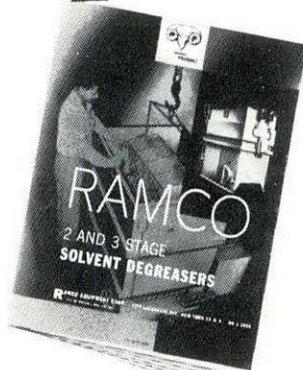
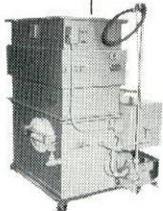
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cleaning
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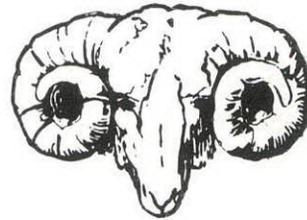
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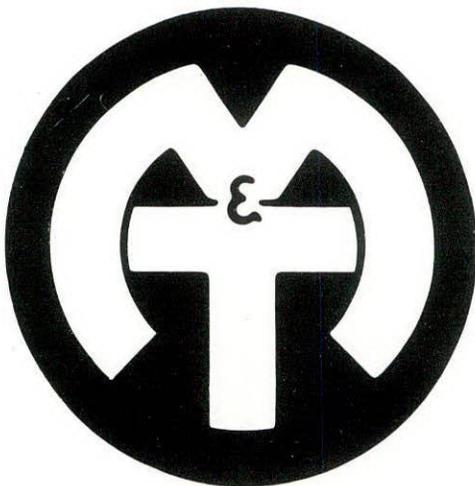
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- Daniels Plating Barrels
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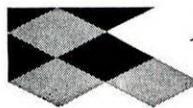
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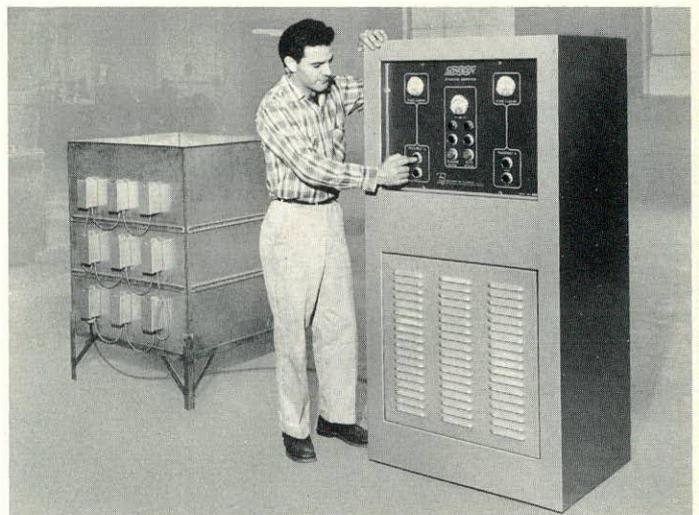
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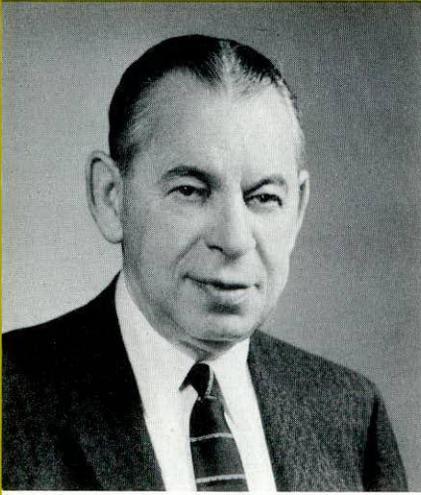
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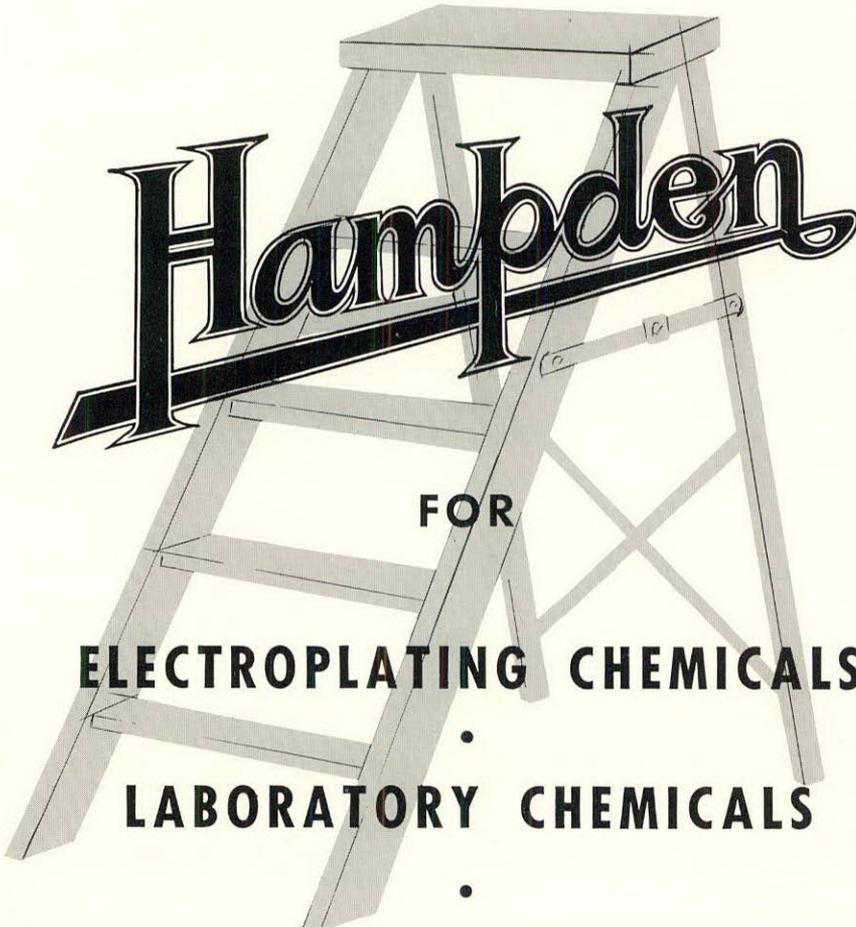
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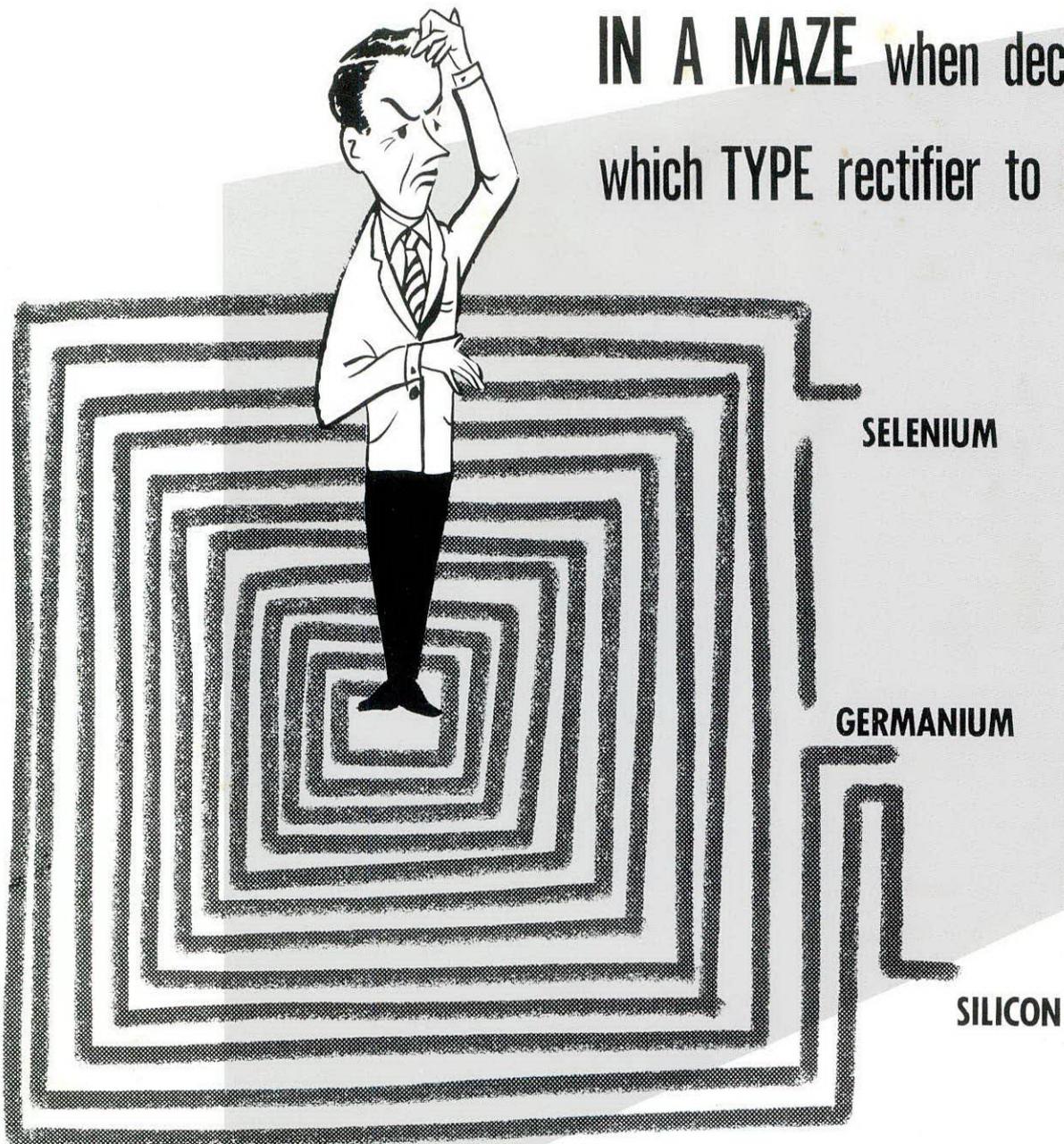
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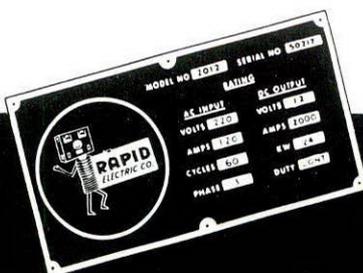


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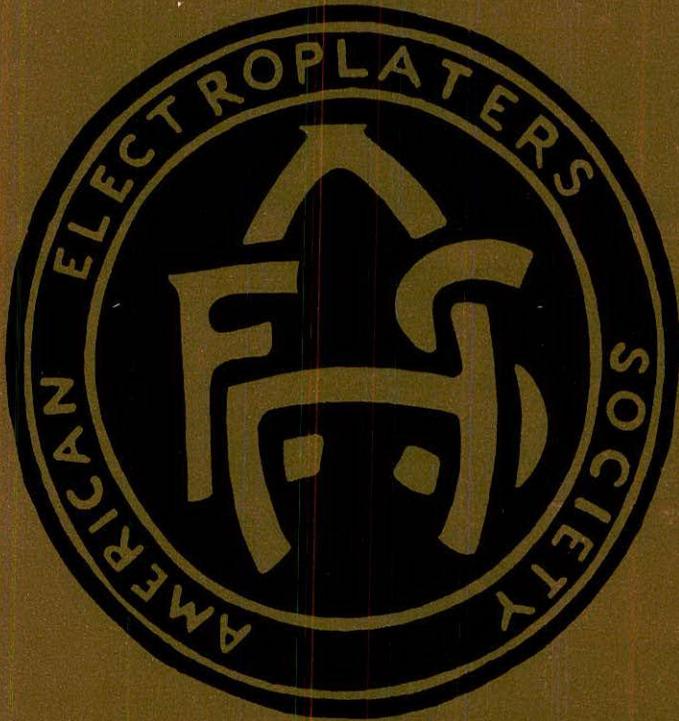


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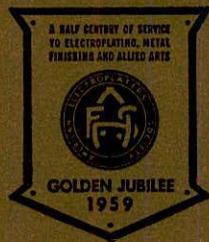


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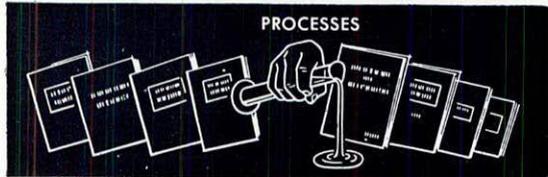
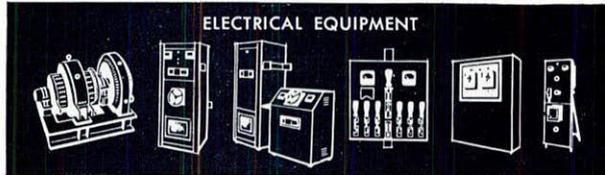
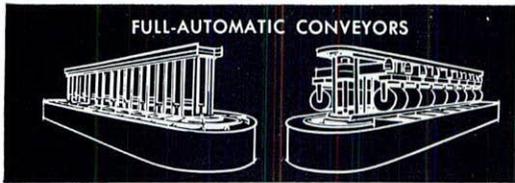
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TECHNICAL SESSION



MR. EDWIN F. OTTENS WILL TALK ON "Printed Circuit Manufacture"

Mr. Ottens was born July 1, 1917 in Allentown Penn., attending local schools, also attending Lehigh University, where he received his B. Sc. in Ch. E. in 1938 and M. Sc. in Chemistry in 1940. In June 1940 he joined the Philco Corporation as Chemical Engineer where he was concerned with production and processing phases of chemical operations associated with Radio and Television manufacture such as, plastic and metal finishing, printed circuitry, etc. In addition he was president of the Philadelphia Branch of the A.E.S. from 1952 to 1954 and has held other offices in the local society.

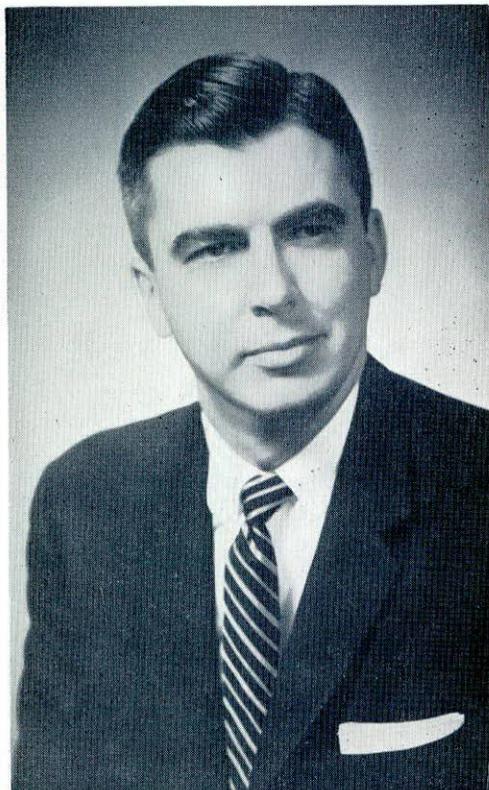


Biographical Sketch A. M. Max

DR. MAX WILL GIVE A TALK ON "Contributions of Plating to Hi-Fi Records"

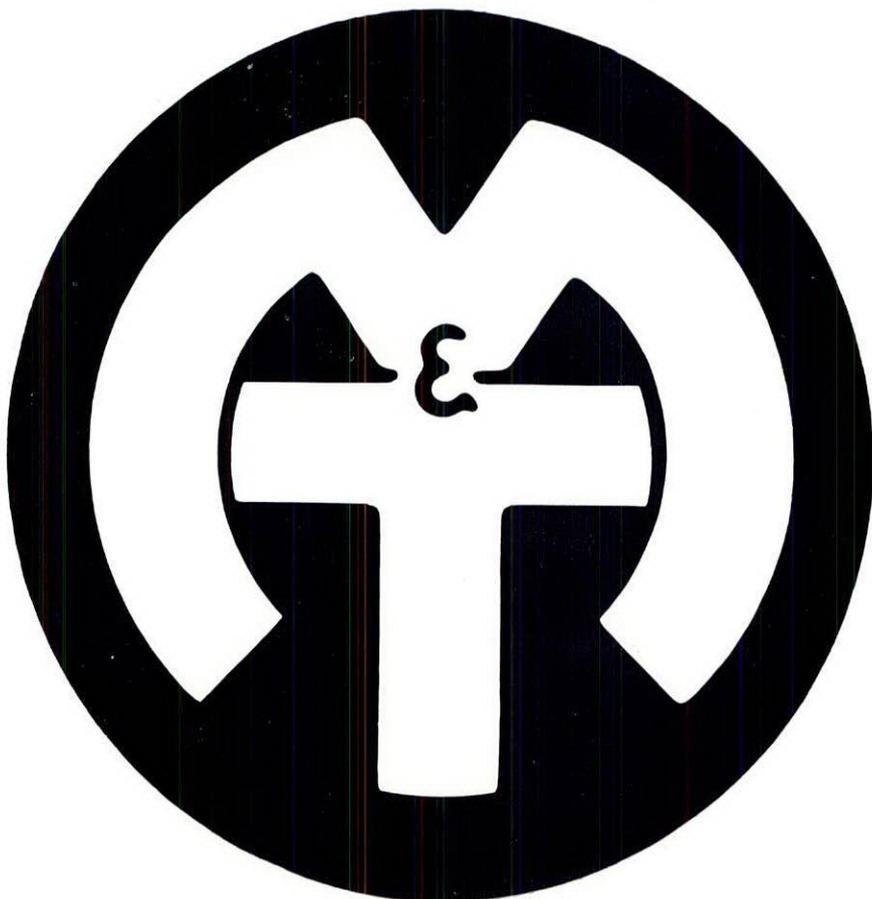
Abraham M. Max was born in Sheboygan, Wisconsin. Attending the University of Wisconsin, he received his B.S. and M.S. in Chemical Engineering in 1934 and 1935, respectively. His Ph.D. was granted in 1937 for work in corrosion and inhibitors of corrosion under the late Prof. O. P. Watts.

From 1937 to 1941, Dr. Max was a chemist with Ternstedt Division of General Motors Corporation in Detroit, working primarily on decorative plating development on automotive hardware. From 1941 to 1944, Dr. Max was Assistant Professor of Chemical Engineering at the University of North Dakota. From 1944, Dr. Max has been with the Engineering and Development Section of the RCA Victor Record Division in Indianapolis. To 1950, he was supervisor of the Metallizing and Plating Group, which in 1948 was awarded the RCA Award of Merit for the development of matrix processing methods which contributed to materially improved record quality. Since 1950, Dr. Max has been Manager of the Chemical and Physical Laboratory.



**MR. WILLIAM K. MURRAY WILL TALK ON
"Solving Problems in Electroplating"**

Mr. Murray graduated from Rensselaer Polytechnic Institute in 1944 with the degree of Bachelor of Chemical Engineering. His first metal finishing experience was gained at Wallace Silver-smiths, Wallingford, Connecticut, where he was employed as Finishing Engineer and later as Laboratory Supervisor. The latter position included responsibility for development and control work for all metal finishing processes including electroplating, barrel burnishing, spray washing and electropolishing. Mr. Murray joined Enthone in 1953 as Supervisor of the Technical Service Laboratory and was recently appointed Manager of Marketing. He is Past-President of the New Haven Branch of the A.E.S. and has spoken to many branches of the A.E.S. on various subjects.



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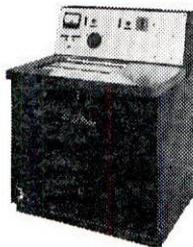
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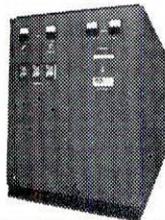
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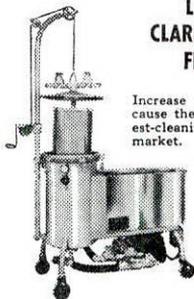
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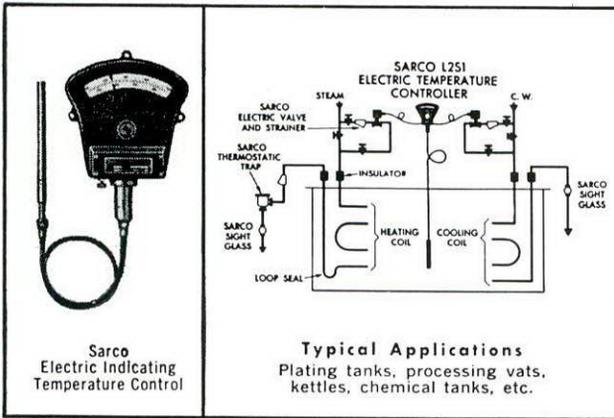
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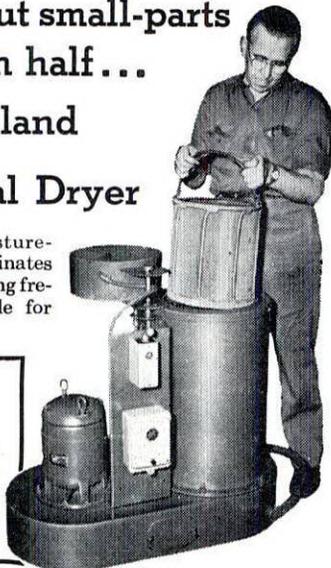
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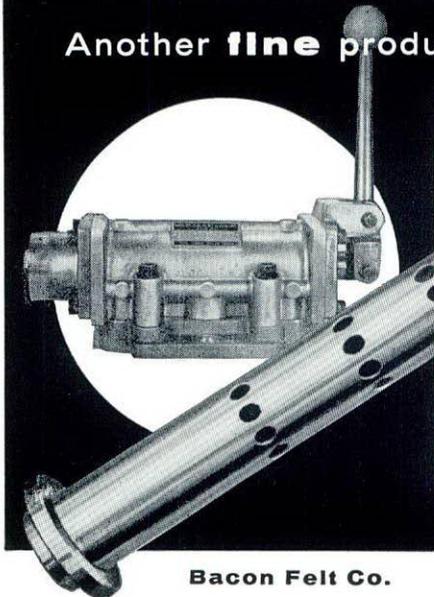
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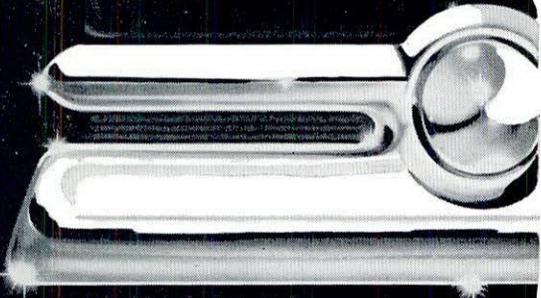
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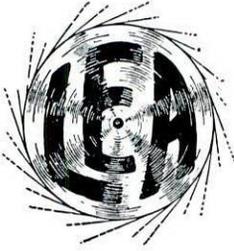
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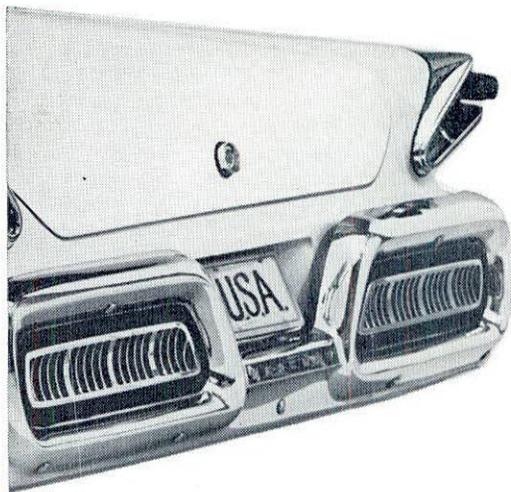
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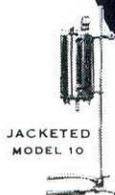
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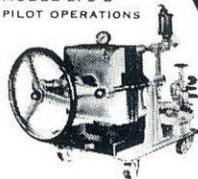
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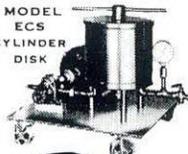


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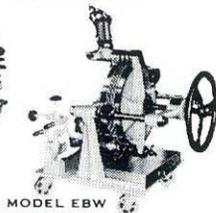
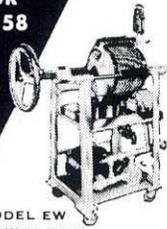
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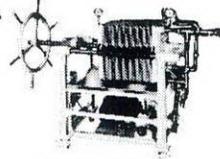
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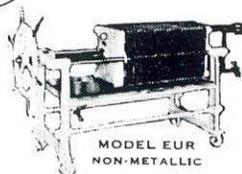
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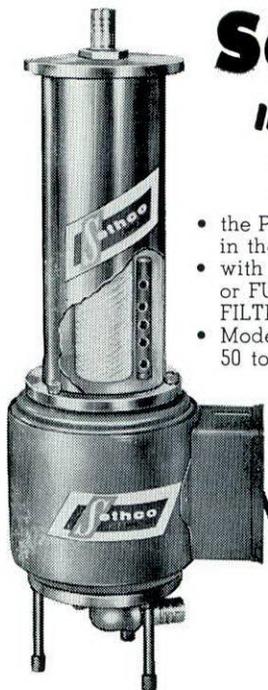
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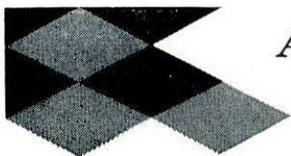
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USEFUL DATA

<i>Multiply</i>	<i>by</i>	<i>to obtain</i>
Amperes/sq. centimeter	x 6.452	= Amperes/sq. inch
Amperes/sq. inch	x 0.1550	= Amperes/sq. cm.
Amperes/sq. decimeter	x 9.29	= Amperes/sq. foot
Amperes/sq. foot	x 1.108	= Amperes/sq. dm.
Atmospheres	x 76.0	= Cms. of mercury
Atmospheres	x 29.92	= Inches of mercury
Atmospheres	x 33.90	= Feet of water
Atmospheres	x 1.0332	= Kgs./sq. cm.
Atmospheres	x 14.70	= Lbs./sq. inch
Atmospheres	x 1.058	= Tons/sq. foot
British Thermal Units	x 0.2520	= Kilogram-calories
British Thermal Units	x 778.3	= Foot-lbs.
British Thermal Units	x 3.931×10^{-4}	= Horse-power-hours
British Thermal Units	x 107.6	= Kilogram-meters
British Thermal Units	x 2.930×10^{-4}	= Kilowatt-hours
B.T.U./minute	x 12.97	= Foot-lbs./second
B.T.U./minute	x 0.02357	= Horse-power
B.T.U./minute	x 0.01758	= Kilowatts
B.T.U./minute	x 17.58	= Watts
Centimeters of Mercury	x 0.01316	= Atmospheres
Centimeters of Mercury	x 0.4461	= Feet of water
Centimeters of Mercury	x 136.0	= Kgs./sq. meter
Centimeters of Mercury	x 27.85	= Lbs./sq. foot
Centimeters of Mercury	x 0.1934	= Lbs./sq. inch
Centimeters/second	x 1.969	= Feet/minute
Centimeters/second	x 0.03281	= Feet/second
Centimeters/second	x 0.036	= Kilometers/hour
Centimeters/second	x 0.6	= Meters/minute
Centimeters/second	x 0.02237	= Miles/hour
Centimeters/second	x 3.728×10^{-4}	= Miles/minute
Cubic Centimeters/liter	x .128	= Fluid ounces/gallon
Feet of Water	x 0.02950	= Atmospheres
Feet of Water	x 0.03048	= Kgs./sq. cm.
Feet of Water	x 62.43	= Lbs./sq. foot
Feet of Water	x 0.4335	= Lbs./sq. inch
Feet/minute	x 0.5080	= Centimeters/second
Feet/minute	x 0.3048	= Meters/minute
Feet/minute	x 0.01136	= Miles/hour

<i>Multiply</i>	<i>by</i>	<i>to obtain</i>
Cubic yards	x 27	= Cubic feet
Feet	x 30.48	= Centimeters
Feet	x 0.3048	= Meters
Feet	x 1.894×10^{-4}	= Miles
Gallons	x 3785	= Cubic cms.
Gallons	x 0.1337	= Cubic feet
Gallons	x 231	= Cubic inches
Gallons	x 3.785×10^{-3}	= Cubic meters
Gallons	x 4.951×10^{-3}	= Cubic yards
Gallons	x 3.785	= Liters
Grams	x 15.43	= Grains
Grams	x 0.03527	= Ounces
Grams	x 0.03215	= Ounces (troy)
Grams	x 2.205×10^{-3}	= Pounds
Inches	x 2.540	= Centimeters
Inches	x 8.333×10^{-2}	= Feet
Inches	x 1.578×10^{-5}	= Miles
Inches	x 2.778×10^{-2}	= Yards
Joules (Int.)	x 9.480×10^{-4}	= British Thermal Units
Kilograms	x 980.665	= Dynes
Kilograms	x 2.205	= Pounds
Kilometers	x 3281	= Feet
Kilometers	x 3.937×10^{-4}	= Inches
Kilometers	x 0.6214	= Miles
Kilometers	x 1094	= Yards
Liters	x 0.03531	= Cubic feet
Liters	x 61.02	= Cubic inches
Liters	x 1.308×10^{-3}	= Cubic yards
Liters	x 0.2642	= Gallons
Liters	x 1.057	= Quarts (liquid)
Meters	x 3.281	= Feet
Meters	x 39.37	= Inches
Meters	x 6.214×10^{-4}	= Miles
Meters	x 1.094	= Yards
Miles	x 1.609	= Kilometers
Millimeters	x 0.03937	= Inches
Millimeters	x 39.37	= Mils.
Millimeters	x 2.540×10^{-3}	= Centimeters

<i>Multiply</i>	<i>by</i>	<i>to obtain</i>
Fluid-ounces/gallon	x 7.7	= Cubic cms./liter
Gallons/minute	x 2.228x10 ⁻³	= Cubic feet/second
Gallons/minute	x 0.06308	= Liters/second
Gallons/minute	x 8.0208	= Cubic foot/hour
Grams/cubic centimeter	x 62.43	= Pounds/cubic foot
Grams/cubic centimeter	x 0.03613	= Pounds/cubic inch
Grams/liter	x 58.417	= Grains/gallon
Grams/liter	x 0.134	= Ounces/gallon
Grams/liter	x 0.122	= Troy ounces/gallon
Grams/liter	x 8.345	= Pounds/1000 gallons
Grams/liter	x 0.602427	= Pounds/cubic foot
Grams/liter	x 1000	= Parts/million
Horse-power	x 10.68	= Kg.-calories/minute
Horse-power	x 0.7457	= Kilowatts
Horse-power	x 745.7	= Watts
Horse-power (boiler)	x 33.520	= B.T.U./hour
Horse-power (boiler)	x 9.804	= Kilowatts
Horse-power hours	x 2545	= British Thermal Units
Horse-power hours	x 1.98x10 ⁻⁶	= Foot-lbs.
Horse-power hours	x 641.7	= Kilogram-calories
Horse-power hours	x 2.737x10 ⁻⁵	= Kilogram-meters
Horse-power hours	x 0.7457	= Kilowatt-hours
Inches of Mercury	x 0.03342	= Atmospheres
Inches of Mercury	x 1.133	= Feet of Water
Inches of Mercury	x 0.03453	= Kgs./sq. cm.
Inches of Mercury	x 70.73	= Lbs./sq. foot
Inches of Mercury	x 0.4912	= Lb.s/sq. inch
Inches of Water	x 0.07355	= Inches of Mercury
Inches of Water	x 5.202	= Lbs./sq. foot
Inches of Water	x 0.03613	= Lbs./sq. inch
Kgs./sq. centimeter	x 32.81	= Feet of Water
Kgs./sq. centimeter	x 28.96	= Inches of Mercury
Kilometers/hour	x 54.68	= Feet/minute
Kilometers/hour	x 0.6214	= Miles/hour
Kilowatts	x 56.92	= B.T.U./minute
Kilowatts	x 14.34	= Kg.-calories/minute
Kilowatt hours	x 3414	= British Thermal Units
Kilowatt hours	x 1.341	= Horse-power hours
Kilowatt hours	x 860.5	= Kilogram-calories

<i>Multiply</i>	<i>by</i>	<i>to obtain</i>
Centigrams	x 0.01	= Grams
Centimeters	x 0.03281	= Feet
Centimeters	x 0.3937	= Inches
Centimeters	x 6.214×10^{-6}	= Miles
Centimeters	x 393.7	= Mils
Centimeters	x 1.094×10^{-2}	= Yards
Circular mills	x 5.067×10^{-6}	= Sq. centimeters
Circular mills	x 7.854×10^{-7}	= Sq. inches
Circular mills	x 0.7845	= Sq. mills
Cubic centimeters	x 3.531×10^{-5}	= Cubic feet
Cubic centimeters	x 0.06102	= Cubic inches
Cubic centimeters	x 1.308×10^{-6}	= Cubic yards
Cubic centimeters	x 2.642×10^{-4}	= Gallons
Cubic centimeters	x 2.113×10^{-3}	= Pints (liquid)
Cubic centimeters	x 1.057×10^{-3}	= Quarts (liquid)
Cubic feet	x 2.832×10^{-4}	= Cubic cms.
Cubic feet	x 1728	= Cubic inches
Cubic feet	x 0.02832	= Cubic meters
Cubic feet	x 0.03704	= Cubic yards
Cubic feet	x 7.481	= Gallons
Cubic feet	x 28.32	= Liters
Cubic feet	x 59.84	= Pints (liquid)
Cubic feet	x 29.92	= Quarts (liquid)
Cubic inches	x 16.39	= Cubic cms.
Cubic inches	x 5.787×10^{-4}	= Cubic feet
Cubic inches	x 1.639×10^{-5}	= Cubic meters
Cubic inches	x 2.143×10^{-5}	= Cubic yards
Cubic inches	x 4.329×10^{-3}	= Gallons
Cubic inches	x 0.01639	= Liters
Cubic inches	x 1.961×10^{-5}	= Mil-feet
Cubic inches	x 0.03463	= Pints (liquid)
Cubic inches	x 0.01732	= Quarts (liquid)
Cubic meters	x 35.31	= Cubic feet
Cubic meters	x 61.023	= Cubic inches
Cubic meters	x 1.308	= Cubic yards
Cubic meters	x 264.2	= Gallons
Cubic meters	x 2113	= Pints (liquid)
Cubic meters	x 1057	= Quarts (liquid)

<i>Multiply</i>	<i>by</i>	<i>to obtain</i>
Liters/minute	x 5.886×10^{-4}	= Cubic ft./second
Liters/minute	x 4.403×10^{-3}	= Gallons/second
Meters/minute	x 1.667	= Centimeters/second
Meters/minute	x 3.281	= Feet/minute
Meters/minute	x 0.05468	= Feet/second
Meters/minute	x 0.03728	= Miles/hour
Miles/hour	x 88	= Feet/minute
Miles/hour	x 1.609	= Kilometers/hour
Miles/hour	x 26.82	= Meters/minute
Milligrams/liter	x 1	= Parts/million
Millions gallons/day	x 1.54723	= Cubic foot/second
Ounces/gallon	x 7.5	= Grams/liter
Parts/million	x 0.0584	= Grains/U. S. gallon
Parts/million	x 8.345	= Lbs./million gallon
Pounds/cubic foot	x 0.01602	= Grams/cubic cm.
Pounds/cubic foot	x 16.02	= Kgs./cubic meter
Pounds/cubic foot	x 5.787×10^{-4}	= Lbs./cubic inch
Pounds/cubic inch	x 27.68	= Grams/cubic cm.
Pounds/cubic inch	x 2.768×10^{-4}	= Kgs./cubic meter
Pounds/cubic inch	x 1728	= Lbs./cubic foot
Pounds/sq. foot	x 0.01602	= Feet of water
Pounds/sq. foot	x 4.883×10^{-4}	= Kgs./sq. cm.
Pounds/sq. foot	x 6.945×10^{-3}	= Pounds/sq. inch
Pounds/sq. inch	x 0.06804	= Atmospheres
Pounds/sq. inch	x 2.307	= Feet of water
Pounds/sq. inch	x 2.036	= Inches of mercury
Pounds/sq. inch	x 0.07031	= Kgs./sq. cm.
Tons of water/24 hrs.	x 83.333	= Pounds water/hour
Tons of water/24 hrs.	x 0.16643	= Gallons/minute
Tons of water/24 hrs.	x 1.3349	= Cubic foot/hour
Watts	x 0.05691	= B.T.U./minute
Watts	x 44.27	= Foot pounds/minute
Watts	x 0.7378	= Foot pounds/second
Watts	x 0.01433	= Kg.-calories/minute
Watt-hours	x 3.415	= British Thermal Units
Watt-hours	x 2656	= Foot pounds
Watt-hours	x 1.341×10^{-3}	= Horse-power hours
Watt-hours	x 0.860	= Kilogram-calories
Watt-hours	x 367.2	= Kilogram-meters

<i>Multiply</i>	<i>by</i>	<i>to obtain</i>
Ounces	x 28.35	= Grams
Ounces (fluid)	x 1.805	= Cubic inches
Ounces (troy)	x 31.10	= Grams
Pints (liq.)	x 473.2	= Cubic centimeters
Pints “	x 1.671×10^{-2}	= Cubic feet
Pints “	x 28.87	= Cubic inches
Pints “	x 0.4732	= Liters
Pounds	x 453.6	= Grams
Quarts (liq.)	x 946.4	= Cubic centimeters
Quarts “	x 3.342×10^{-2}	= Cubic feet
Quarts “	x 57.75	= Cubic inches
Quarts “	x 9.464×10^{-4}	= Cubic meters
Quarts “	x 1.238×10^{-3}	= Cubic yards
Quarts “	x 0.9463	= Liters
Square centimeters	x 1.076×10^{-3}	= Square feet
Square centimeters	x 0.1550	= Square inches
Square feet	x 929.0	= Sq. centimeters
Square inches	x 6.452	= Sq. centimeters
Square meters	x 10.76	= Square feet
Square meters	x 1.196	= Square yards
Yards	x 91.44	= Centimeters
Yards	x 0.0144	= Meters

$$1 \text{ degree F} = 5/9 \text{ degree C}$$

$$1 \text{ degree C} = 9/5 \text{ degree F}$$

To convert temperature from degrees F to Centigrade, subtract 32 and multiply by 5/9 (or divide by 1.8).

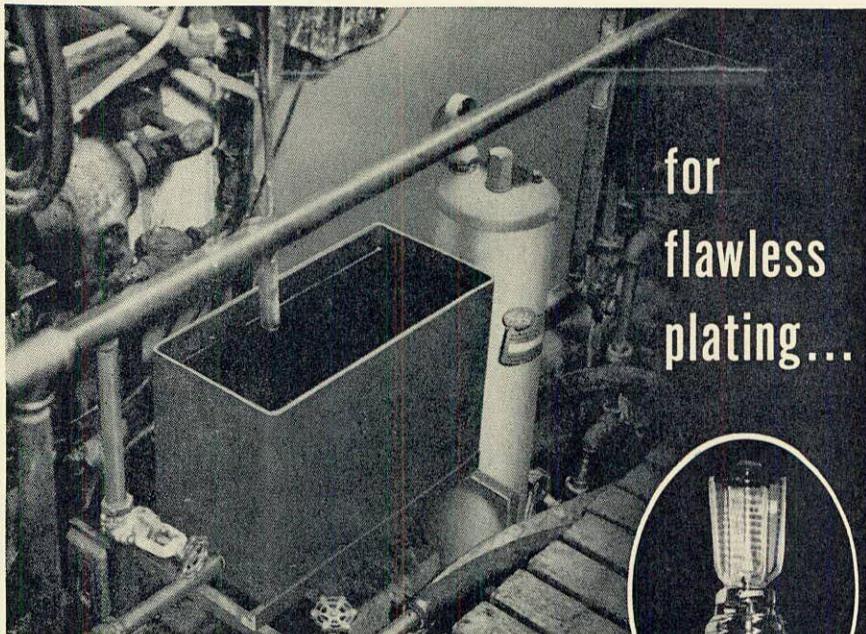
To convert from °C to °F, multiply by 9/5 (or 1.8) and then add 32.

$$\begin{aligned} \text{Temp. } ^\circ\text{C} &= (\text{Temp. } ^\circ\text{F} - 32) \times 5/9 \\ \text{Temp. } ^\circ\text{F} &= (\text{Temp. } ^\circ\text{C} - 9/5) + 32 \end{aligned}$$

Example: $86^\circ \text{ F} = ?^\circ \text{ C}$
 $(86 - 32) \times 5/9 = 54 \times 5/9 = 30^\circ \text{ C}$

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The plating quality of Osterizers, made by John W. Oster Manufacturing Company, Milwaukee, Wisconsin, is universally acknowledged. One way they insure flawless plating is to use Fulflo Filters on every tank to provide continuous micro-clarity of the solution.

Fulflo Filters offer a brand new concept of plating filtration — complete tank turnover up to three times per hour! This means complete solution filtration four times in an eight-hour day. Impurities are removed as

fast as they're formed. Agitation is automatically increased.

You have a choice of rubber-lined or stainless steel containers for high pH solutions; plain steel for cyanide. Models, employing from 1 to 142 Honeycomb Filter Tubes, are compact and economical.

For booklet on "A New Concept of Plating Filtration", write to Department PF.



COMMERCIAL FILTERS CORPORATION

MELROSE 76, MASSACHUSETTS

PLANTS IN MELROSE, MASSACHUSETTS AND LEBANON, INDIANA

MICRO-CLARITY AT MINIMUM COST



with genuine Honeycomb Filter Tubes for controlled micro-clarity of industrial fluids.

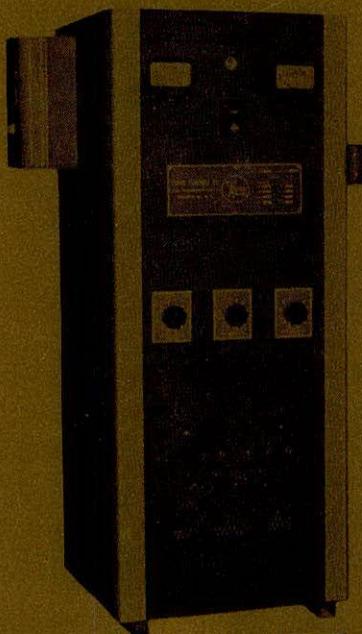


Selective filtration of oils • water-oil separators • magnetic separators • pre-coat filters • coolant clarifiers • automatic tubular conveyors.

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SELENIUM, GERMANIUM & SILICON

RECTIFIERS



with

**Automatic Current or
Voltage Stabilization for**

ELECTROPLATING

*Wide Selection of Stock Ratings. Also
Custom Building to Your Specifications*

DC OUTPUT

From 100 watts to 300 kilowatts
From 1 volt to 1,000 volts
From 5 amps to 50,000 amps
Write for Catalog F-1

**STANDARD MODELS
AC INPUT**

110 volts, single phase:
220 or 440 volts,
3-phase; 60 cycles

RAPID ELECTRIC COMPANY

2881 Middletown Road, New York 61, New York

TECHNICAL SESSION

Educational Chairman, Mike Tamas

DR. ABNER BRENNER - Bureau of Standards

Subject: Impressions of Russian Plating Techniques From His Recent Trip
To The U.S.S.R.

Dr. Abner Brenner of the National Bureau of Standards; for many years an important contributor to the advancement of the science of electroplating and electrochemistry, attended the All Union Scientific Technical Conference on Corrosion and Protection of Metals held at Moscow, U.S.S.R., May 19-24, 1958.

His subject is of timely and universal interest concerning the major technological rival of our United States!

DR. E. B. SAUBESTRE - Enthone, Inc.

Subject: Electropolishing

Dr. Saubestre has recently joined Enthone, Inc. of New Haven as Assistant to the Research Director, Dr. Walter Meyer.

Dr. Saubestre received his PhD from Columbia and has worked on A.E.S. projects, and for the Research labs of Sylvania Electric, where he specialized in electrochemical research.

A recognized authority on metal finishing, he is well qualified to speak on Electropolishing, having 2 patents on electropolishing and 14 pending.

COCKTAIL TIME

Time - 4:30 P.M. to 6:30 P.M.

Place - Suppliers Hospitality Rooms

DINNER

Time - 6:30 P.M.

MENU

Fresh Fruit Cocktail
Florida

Hearts of Celery

Ripe and Green Olives

Rolls and Butter

French Onion Soup

Cheese Croutons

Roast Top Sirloin of Beef

Delmonico Potatoes

String Beans Amandine

Mixed Green Salad
with French Dressing

Statler Hilton Ice Cream Pie
with Strawberry Sauce

Coffee

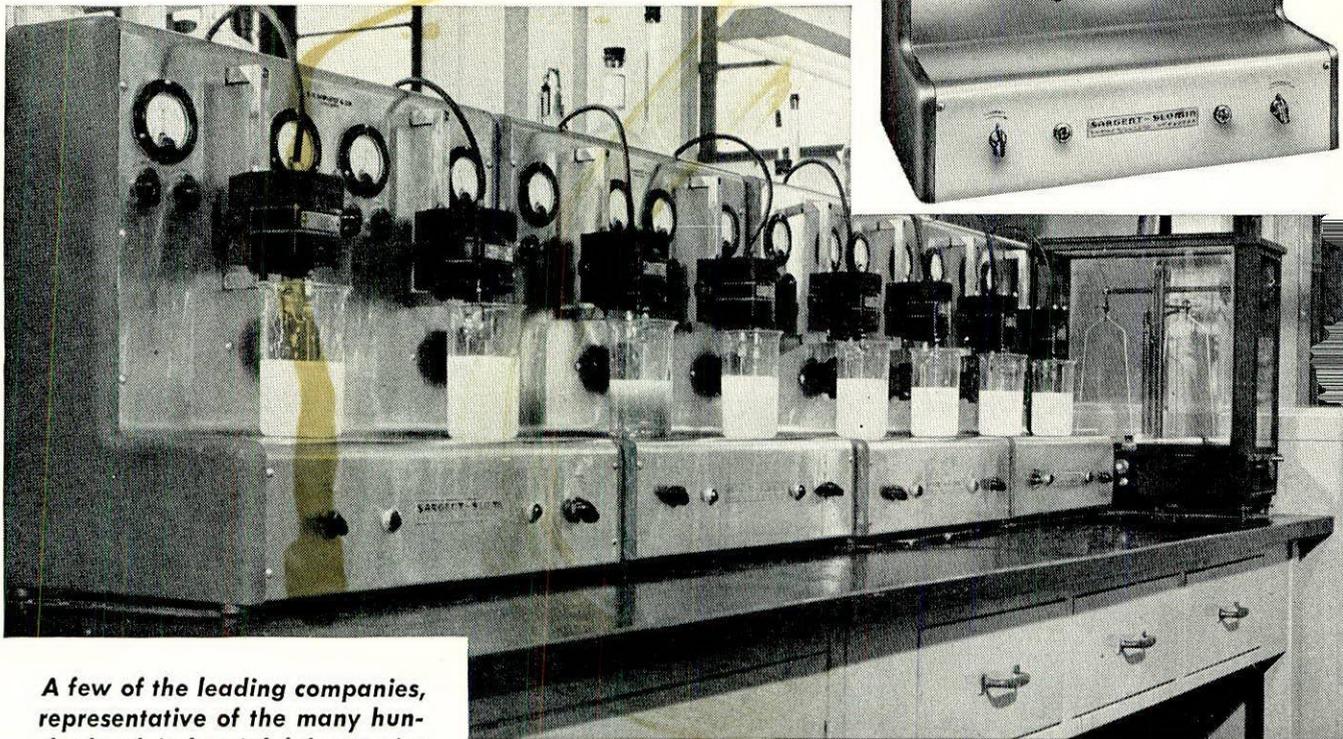
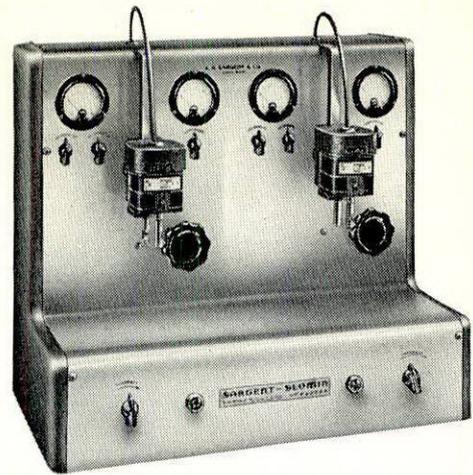
To wind up the Golden Hours, there will be dancing 'til 1:00 P.M. to the music of Bill Glenny's Orchestra.

Tickets \$6.00 per person.

Signed - Host Branch
Ed Garland
Frank Tirendi
James Kennedy

SARGENT-SLOMIN ANALYZERS

*are standard equipment
in prominent laboratories*



A few of the leading companies, representative of the many hundreds of industrial laboratories using the Sargent - Slomin and Heavy Duty Analyzers for control analyses . . .

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- ANDERSON LABORATORIES
- CALERA MINING COMPANY
- EUREKA WILLIAMS COMPANY
- THE FEDERAL METAL CO.
- FORD MOTOR COMPANY
- THE GLIDDEN COMPANY—Chemical, Metal
and Pigment Division
- HOT POINT CO.
- HOWARD FOUNDRY COMPANY
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- KENNAMETAL Inc.
- McQUAY - NORRIS MANUFACTURING CO.
- NATIONAL LEAD COMPANY,
Fredericktown, Missouri
- PIASECKI HELICOPTER CORPORATION
- REVERE COPPER & BRASS INCORPORATED
- THE RIVER SMELTING & REFINING
COMPANY
- SILAS MASON COMPANY
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- THOMPSON PRODUCTS, INC.

Photo Courtesy INTERNATIONAL HARVESTER COMPANY, Melrose Park, Illinois

Sargent-Slomin Electrolytic Analyzers are recommended for such electro analytical determinations as: Copper in—ores, brass, iron, aluminum and its alloys, magnesium and its alloys, bronze, white metals, silver solders, nickel and zinc die castings. Lead in—brass, aluminum and its alloys, bronze, zinc and zinc die castings. Assay of electrolytical copper, nickel and other metals.

Sargent analyzers are completely line operated, employing self-contained rectifying and filter circuits. Deposition voltage is adjusted by means of autotransformers, with meters indicating volts and amperes and controls on the panel. An easily replaceable fuse guards against circuit overload. Maximum D.C. current capacity is 5 to 15 amperes; maximum D.C. voltage available, 10 volts.

Sargent-Slomin Analyzers stir through a rotating chuck operated from a capacitor type induction motor, having a fixed speed of 550 r.p.m. with 60 cycle A.C. current or 460 r.p.m. with 50 cycle A.C. current. Motors are sealed against corrosive fumes and are mounted on cast metal brackets, sliding on 1/2" square stainless steel rods, permitting vertical adjustment of electrode position over a distance of 4". Pre-lubricated ball-bearings support the rotating shaft. All analyzers accommodate electrodes having shaft diameters no greater than 0.059 inch. Stainless steel spring tension chucks permit quick, easy insertion of electrodes and maintain proper electrical contact. Special Sargent high efficiency electrodes are available for these analyzers. Illustrated above is one model of the five types of Sargent-Slomin and Heavy Duty Analyzers.

5-29465 ELECTROLYTIC ANALYZER—Motor stirred, Two Position, 5 Ampere. With two adjustable heaters, pilot lights and control knobs. For operation from 115 volt, 50 or 60 cycle A.C. circuits.....\$530.00

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Anniversary Greetings to AES

CONCEIVED in the year 1908, the "National Electro-Platers Association of the United States and Canada" was born early in 1909. In 1913, NEPA, with a membership of some 350, was reorganized as the American Electroplaters' Society. After a half century of growth and progress, AES is now observing its Fiftieth Anniversary during the period of July 1, 1958 through June 30, 1959. The year's activities will be climaxed by the society's Golden Jubilee Convention and Industrial Finishing Exposition, including the Fifth International Conference on Electrodeposition and Metal Finishing, to be held in Detroit next June. The official journal of AES, *Plating*, is preparing a special feature Golden Jubilee Issue for June.

This JOURNAL takes the opportunity to extend anniversary greetings to AES, and to congratulate the society on the high position it has attained among American Industrial Scientific Societies. Recognized leader in a field of utmost importance to modern society, its interests range from the encouragement of theoretical research through the activities of many of the largest industrial corporations to the practical problems of the smallest plating and finishing laboratory. In addition to the encouragement of basic research, AES is able to offer financial support to worthy projects in a way which our own Society cannot do, and we congratulate the organization on its wise decisions in this direction.

Our Society and the American Electroplaters' Society have enjoyed cordial and mutually profitable relations for many years, and there seems to be no reason why this should not continue indefinitely. We have a considerable area of overlapping interests on the one hand, and on the other hand a wide separation of interests. Electrodeposition is the largest Division of our Society, with more than 700 members, of whom several hundred are also members of AES. There are members common with our Corrosion and other Divisions as well. Our Society could not, and would not wish to, extend its activities over the full range of AES interests, and the opposite is certainly equally true. We are happy that the work of each Society supplements that of the other.

Our Society is fortunate in having similarly overlapping interests with many other scientific organizations. We like to feel that we can provide a common meeting ground, with our National (and International) Meetings and JOURNAL, for scientists of widely divergent primary interests. Our growth during the past several years, and the increasing support we have received, are measures of our success. These things have not come at the expense of the other societies at all, but are the result of mutual desires for the interchange of knowledge and stimulation.

—CVK

Copper - Nickel - Chromium and Corrosion Protection

By A. H. Du Rose and W. J. Pierce, *The Harshaw Chemical Co., Cleveland, Ohio*

SEVERAL years ago a paper¹ by one of the authors pointed out that, in his opinion, one of the greatest problems in the plating field, is poor reproducibility. It was stressed that, from the standpoint of corrosion protection, while an individual exposure test might show good precision within itself, generalized conclusions could not be made from the results. This has become quite evident in recent years from various published results regarding copper-nickel-chromium deposits and their serviceability in various locations. It is for this reason that the authors, while arriving at certain conclusions in this paper, hesitate to say that these conclusions are invariably true under all conditions.

Some of the questions which are receiving considerable attention at the present time are:

1. Are plated parts, especially on cars, giving as good corrosion protection as was obtained in the past?
2. Are results obtained at one outdoor exposure site representative of those obtained at other sites?
3. Do accelerated corrosion test results predict serviceability?
4. Is a copper undercoat prior to nickel of any value?
5. Does bright nickel have as good corrosion protective value as grey nickel?

From numerous corrosion tests — accelerated, roof and service — involving many thousands of plated panels over the years, we have arrived at certain general conclusions. The word 'general' is used because, for practically all cases, exceptions can be found in our own results or published results. The cause of these exceptions can be conjectured in some cases but, in many cases, is completely baffling.

Stated briefly, our conclusions in regard to the previous questions are:

1. Discounting extreme recesses and taking into consideration a supposedly more corrosive atmosphere, plated parts are as good now as they were in 1938.
2. Between two different types of outdoor exposure sites the order of merit of different copper-nickel-chromium coatings is usually the same, with some occasional unexplainable reversals. It is not unusual, however, for two coatings to be different at one site and practically the same at another site.

3. Similar differences in order of merit are obtained between outdoor exposure sites and accelerated corrosion tests as are obtained between different outdoor exposure sites.
4. A copper undercoat prior to grey nickel or a sulfur-free nickel deposit is of practically no benefit. A copper undercoat prior to a sulfur-containing nickel is frequently beneficial. The improvement may be equal to that of an equal thickness of additional sulfur-containing nickel. When corrosion does occur, the copper-nickel-chromium plated article will be more unsightly due to crater-rusting than would be the case for nickel-chromium.
5. Sulfur-containing semibright or bright nickel deposits do not exhibit as good corrosion protection as do sulfur-free deposits.

The question whether plated ware was better in the past can be more easily answered if we define what we mean by the past. If we refer to a time prior to about 1935, the question of grey nickel versus the organic type bright nickel can legitimately be involved. If we refer to the period shortly after 1935, when bright nickel was widely used, it is difficult to understand how the organic type bright nickel can be blamed for the present poor serviceability.

It is questionable whether any factual proof is available to show that nickel plating is not as good today as it was 20 years ago. However, the recollection of most people is that this is the case and, while the use of the organic type bright nickel might be some small factor, the authors believe that two other often overlooked factors are of much more importance. One of these is the more corrosive atmosphere in most urban areas, and the other is the more complicated parts which are plated today.

Exceptions can be cited no doubt, but there is hardly any question that our atmosphere today must be more corrosive than in past years, due to the large increase in the number of cars on the road and the rapid increase in the use of household incinerators. Industry may have contributed to this to some small extent, but, due to anti-pollution campaigns, this cause of corrosivity is probably relatively minor. The change in the Pittsburgh atmosphere during the past 12 years is a notable example. However, most air pollution data² will show an increase in constituents which can cause corrosion of nickel and chromium. Even without analytical data the increase in vehicle registrations from about 28 million in 1937 to about 67 million in 1957 should be convincing.

A GOLDEN ANNIVERSARY

I shall pass through this world but once. If, therefore, there be any kindness I can show, or any good I can do, let me do it now; let me not defer it or neglect it, for I shall not pass this way again.

Fifty years ago, this month, the first Roosevelt had just turned over the reins to William Howard Taft, three states had not yet joined the union, and we counted a population of about 90 million. A foreman plater earned about \$27.50 per week, which was not a poor wage according to the standards of those days, but he had very little to guide him.

On March 6, fifty years ago, two dozen of them met in New York City, at the old Hotel Chelsea, to discuss the creation of a non-profit association for the advancement of electroplating, metal finishing and allied arts, and the American Electroplaters' Society was born. As a result of this meeting and another two weeks later, attended by additional recruits, the National Electroplaters Association of the United States and Canada (NEPA) was formally organized on April 10 with sixty charter members. As their first president they chose Charles H. Proctor, the forward-looking New Jersey plating and foundry supervisor who inspired that first meeting.

Growth was rapid, with 144 active members in 1912 and over 350 in 1913 and, on June 1, 1913, when NEPA was reorganized as the American Electroplaters' Society, it boasted 13 chartered branches spanning New York to St. Louis from east to west, up to Toronto, Canada, and had already been host to the industry's first Industrial Finishing Exposition. At this first annual meeting as a national society George B. Hogaboom was inducted as president of the AES, and yearly dues were set at \$5 per member. Membership consisted of three classes: Active Members who were required to be platers or chemists, Associate Members who were connected with suppliers, and Honorary Members. Individually and as a group they pioneered the development of metal finishing along scientific lines so that we, today, can enjoy the benefits of their efforts.

From these beginnings the AES has matured into a world-wide technical organization, with 58 autonomous branches and almost 8,000 men and women who pride themselves on their membership. Mere survival for five decades would have been noteworthy in itself, and the phenomenal growth registered by the Society is incontrovertible evidence that the precepts of the founders have been followed faithfully. Advancement of the art and dissemination of knowledge will always be the guiding principles of the AES. May we say "Happy Birthday" and offer our congratulations and best wishes for the future!

Nathaniel Hall

you are invited to attend the

5TH INDUSTRIAL FINISHING EXPOSITION

SPONSORED BY THE AMERICAN ELECTROPLATERS' SOCIETY
IN CONJUNCTION WITH ITS GOLDEN JUBILEE CONVENTION



EXPOSITION HOURS

TUESDAY and WEDNESDAY
June 16 and 17
10 A.M. to 9 P.M.

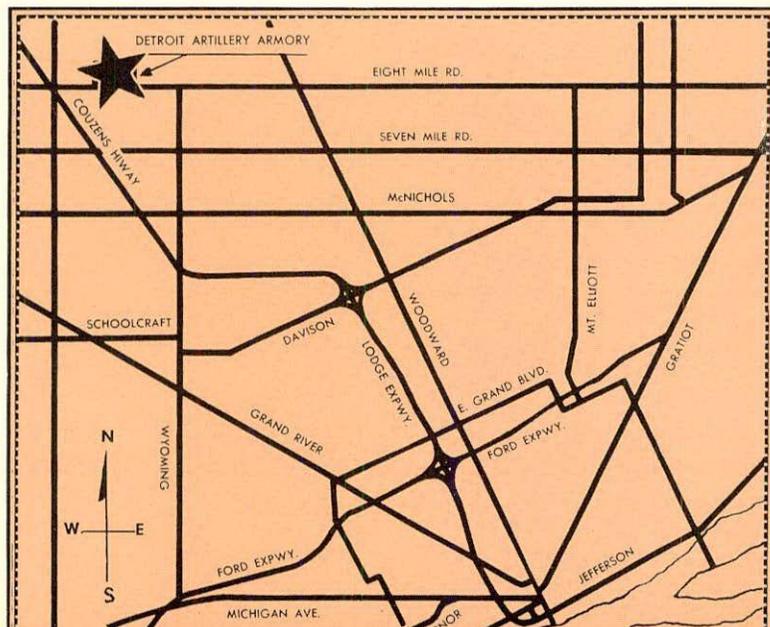
THURSDAY
June 18
10 A.M. to 4 P.M.

FRIDAY
June 19
10 A.M. to 6 P.M.

DETROIT
ARTILLERY ARMORY
15000 W. 8 MILE ROAD
Between Schaefer and Greenfield
OAK PARK, MICHIGAN

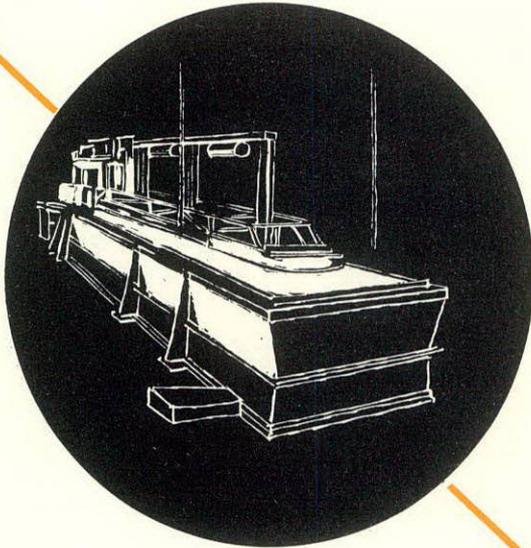
JUNE 15-19
1959

Chartered busses will run on
regular schedules between the
Armory and the Statler-Hilton
Hotel

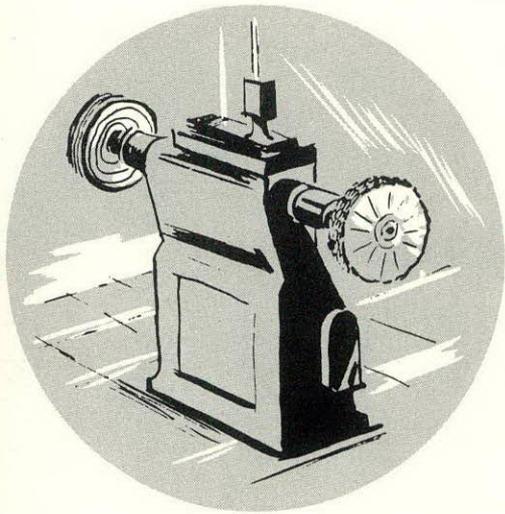


YOU WILL SEE THE FUTURE

Anodes and chemicals

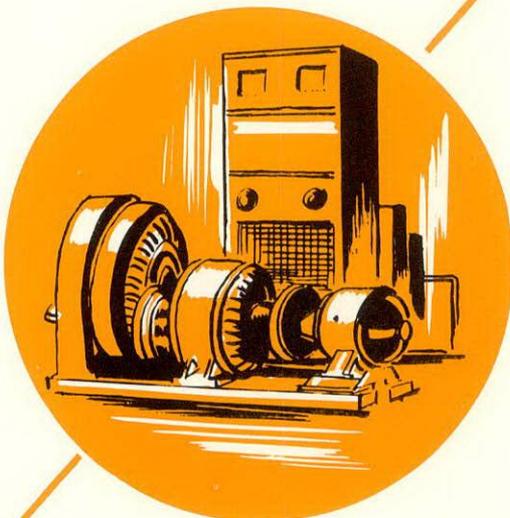


Automatic plating and processing machines

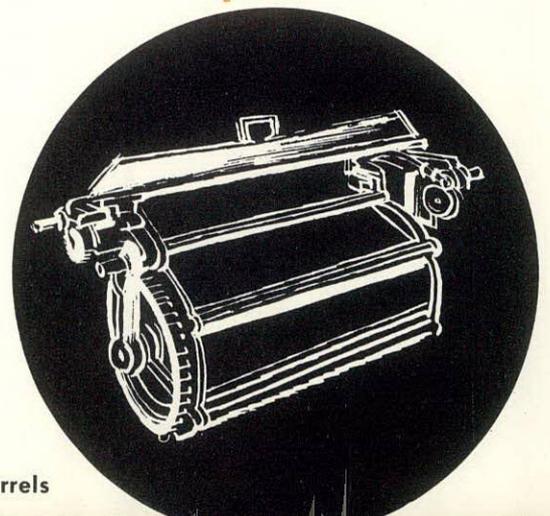


Buffing and polishing equipment

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OF OUTSTANDING
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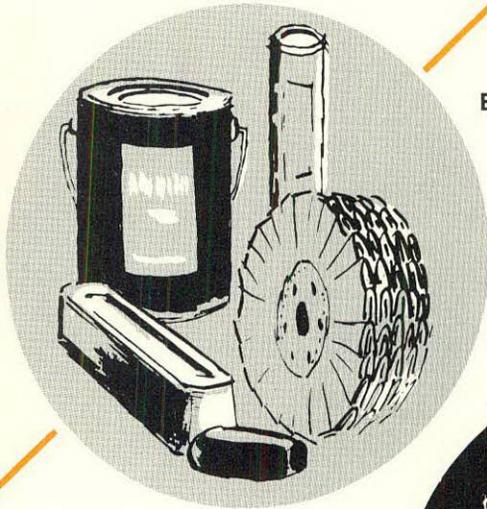


Rectifiers and generators



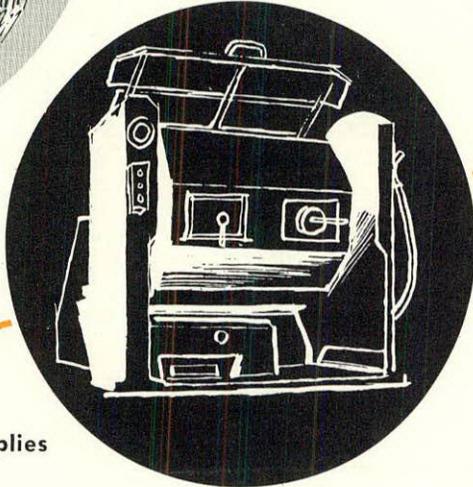
Tumbling barrels

IN INDUSTRIAL FINISHING



Bufs and compounds

• Dynamic Detroit will be the scene of the 5th Industrial Finishing Exposition. To be held in conjunction with the American Electroplaters' Society Golden Jubilee, this Exposition will feature hundreds of exhibits by America's leading suppliers to the metal finishing industry.



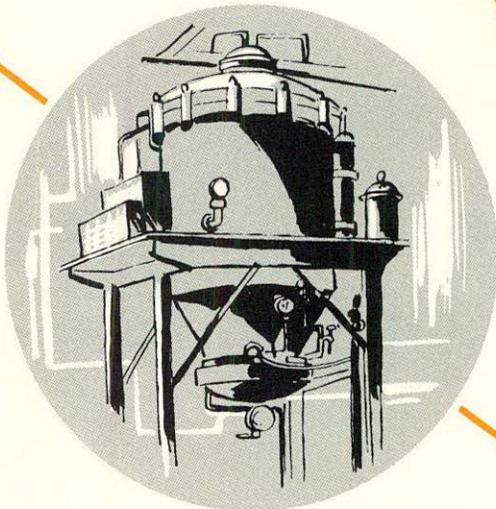
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Latest research findings and developments

Filtering equipment



YOU CAN'T AFFORD TO MISS IT!!

Plan now to join your fellow executives, engineers and plating room personnel at this memorable Exposition. June 15 through 19, 1959.

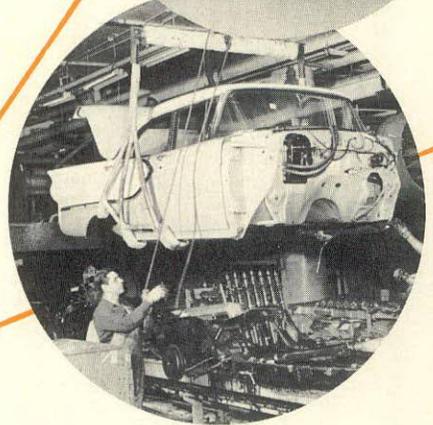
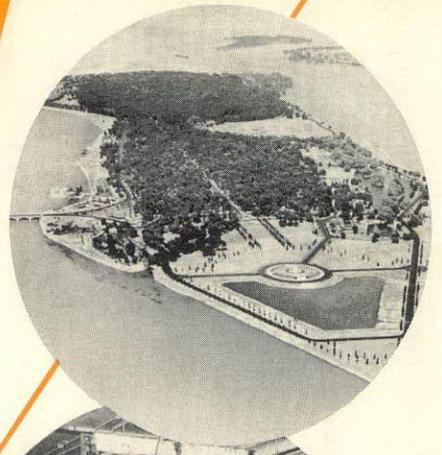


START THE BALL

ROLLING RIGHT NOW

Use the hotel reservation form you have already received from the American Electroplaters' Society or write direct to—

Mrs. Dorothy Garrett, Housing Committee, A. E. S.
Detroit Convention and Tourist Bureau
626 Book Bldg., Detroit 26, Michigan

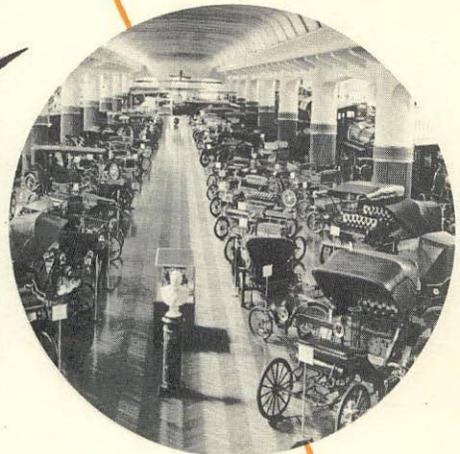


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Bring the Ladies . . .

They will greatly enjoy the pleasures of sight seeing and shopping in Detroit.

Visiting the hundreds of outstanding churches, restaurants, theatres, night clubs, sporting events and cultural institutions will be an experience they'll long remember.



Don't Forget . . . Detroit — June 15-19 — A.E.S. Convention and Exposition

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Pockrandt, Inc.
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Rampe Manufacturing Co.
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Rapid Electric Co.

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Barrel Finishing and Tumbling equipment
Buffing and Polishing Compositions and equipment
Chemicals

Cooling methods and equipment
Corrosion preventatives
Degreasing supplies and equipment
Drainage Equipment
Dryers
Filters and Pumps
Generators
Grinding supplies and equipment
Heating methods and equipment
Materials Handling Equipment

Motors, Blowers and Fans
Organic Materials and Coatings
Pipes, Fittings, Nozzles and Valves
Plant Construction, Layout and Engineering
Purification Methods
Racks and Rack Coatings
Recovery Methods
Rectifiers
Safety Procedures and Equipment
Tanks and Linings
Testing Devices
Ventilation and Exhaust Systems
Waste Disposal Equipment

SUBJECT	NAME	BUSINESS AFFILIATION	COUNTRY
Influence of Basis Metal	Dr. M. H. Jones	Ontario Research Foundation	Canada
European Bright Anodizing Practice	A. W. Brace	Aluminum Laboratories, Ltd.	England
Experiences with the use of the Sulphur Dioxide Test	Dr. J. Edwards	The British Non-Ferrous Metals Research Association	England
Shot Peening and Baking Effect on Chromium Plated Steels	Dr. R. A. F. Hammond	Past President, Institute of Metal Finishing	England
A critical Study of Accelerated Weathering of Organic Finishes	A. A. B. Harvey		England
Grain Size Control in Electroforming	A. D. Hughes		England
Pyro-Phosphate Zinc Plating	U. R. Marx		England
Comparison of British and U. S. Methods of Organic Finishing	Dr. W. Stein & D. H. Lloyd	Wilmot Breeden Limited	England
Barrel Plating with special consideration to Protection of Thread Diameters	A. W. Wallbank		England
Problems Encountered in the Application of Pre-coated Steel	Dr. S. Wernick	Ionic Plating Company, Ltd.	England
Electropolishing in Metallography	Pierre A. Jacquet	Consultant, Secretary, Past Pres. Institute of Metal Finishing	England
Status of Electropolishing in Europe and its Alloys	Robert Mondon	Societe Jacquet-Hispano Suiza	France
Developments in Coating of Aluminum and its Alloys	H. Guinsberg	Societe Jacquet-Hispano Suiza	Germany
Chemical Polishing	H. Spahn		Holland
Passivation of Metals	P. Baeyens		India
Pyrophosphate Systems	T. L. Rama Char	Institut Fur Werkstoffkunde	Italy
Accelerated and Exposure Tests on Nickel-Chromium Plated Aluminum	F. Sacchi		Switzerland
Development and Application of Ultrasonic Cleaning	J. Zucker	Indian Institute of Science	United States
Conversion Coatings	R. F. Ayres		United States
Experiences with the use of the Corrod-kote Test	D. M. Bigge	Oakite Products, Inc.	United States
The William Blum Lecture	Dr. William Blum	Chrysler Corporation	United States
Water Soluble and Water Reducible Coatings for Metals	R. A. Boller		United States
Gas Plating	E. R. Breining	Archer-Daniels-Midland Company	United States
Corrosion Studies	Dr. Henry Brown		United States
Finishing Zinc Die Castings	Dr. Charles Faust	The Commonwealth Engineering Co. of Ohio	United States
Surface Preparation for Organic Finishes	Dr. R. Gibson	The Udylite Research Corporation	United States
Black Chromium Plating	Dr. A. K. Graham	Battelle Memorial Institute	United States
Epoxy Resins	H. W. Howard	Parker Rust Proof Company	United States
Purification of Cyanide Solutions	W. P. Innes	Graham, Savage & Associates	United States
Importance of Corrosion Testing	F. L. LaQue	Shell Chemical Corporation	United States
Microthrowing Power	Dr. Henry Leidheiser, Jr.	MacDermid Incorporated	United States
Statistical Design and Analysis in the Application of Plastisols	M. D. Levin	International Nickel Company	United States
Bronze as a Protective Undercoat for Decorative Finishes	F. A. Lowenheim	Virginia Institute for Scientific Research	United States
Vinyl Coatings for Metals	W. H. McKnight	General Electric Company	United States
Impurities in Plating Solutions	Dr. Abraham Max		United States
Plated Metals for use in Selective Heat Treating	R. Scott Modjeska	Metal & Thermit Corporation	United States
Experiences with the use of the Accelerated Acetic Acid Salt Spray Test	C. F. Nixon	Bakelite Corporation	United States
Vinyl Dispersion Coatings	M. Perez	RCA Victor-Record Division	United States
Studies related to ductility	Dr. H. J. Read	Scientific Control Labs, Inc.	United States
Silicone Metal Protectants	E. Saubestre	General Motors Corporation	United States
Finishing of Aluminum	Dr. S. Sterman		United States
Organic Finishing—Not announced	R. V. Vanden Berg	Metal & Thermit Corporation	United States
	R. A. Williams	The Pennsylvania State University	United States
		Sylvania Electric Products, Inc.	United States
		Union Carbide Corporation	United States
		Aluminum Company of America	United States
		Rinshed-Mason Company	United States

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WHO WILL ATTEND THE EXPOSITION . . .

EXHIBIT SPACE IS STILL AVAILABLE



Write today to

HOWARD J. McALEER, EXPOSITION CHAIRMAN
Formax Corporation, 3171 Bellevue Avenue, Detroit, Michigan

FOR COMPLETE INFORMATION

J.P.M.
R.L.

MAR 1 1959

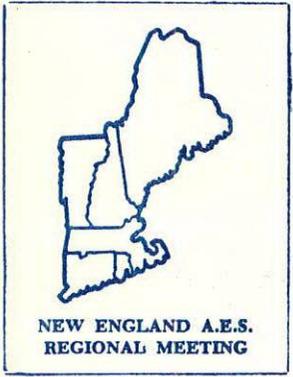
MAR 1 1959

Golden Jubilee - 50th Anniversary American Electroplaters' Society



TWENTIETH ANNUAL NEW ENGLAND REGIONAL MEETING

APRIL 18, 1959 - HOTEL STATLER, HARTFORD, CONN.



DURING THE GOLDEN ANNIVERSARY YEAR OF THE AMERICAN ELECTROPLATERS' SOCIETY - JOIN US IN THE GOLD RUSH OF '59!!!

HOTEL STATLER, HARTFORD, CONN.
SATURDAY - APRIL 18, 1959
AT 2:00 P.M.

The 20th Regional has planned a glittering program - to offer "Golden Nuggets" of wisdom, "Golden Moments" of fun, feasting from the "Golden Horn of Plenty" and dancing to "Glowing Music!"

LADIES -- FOR YOU!

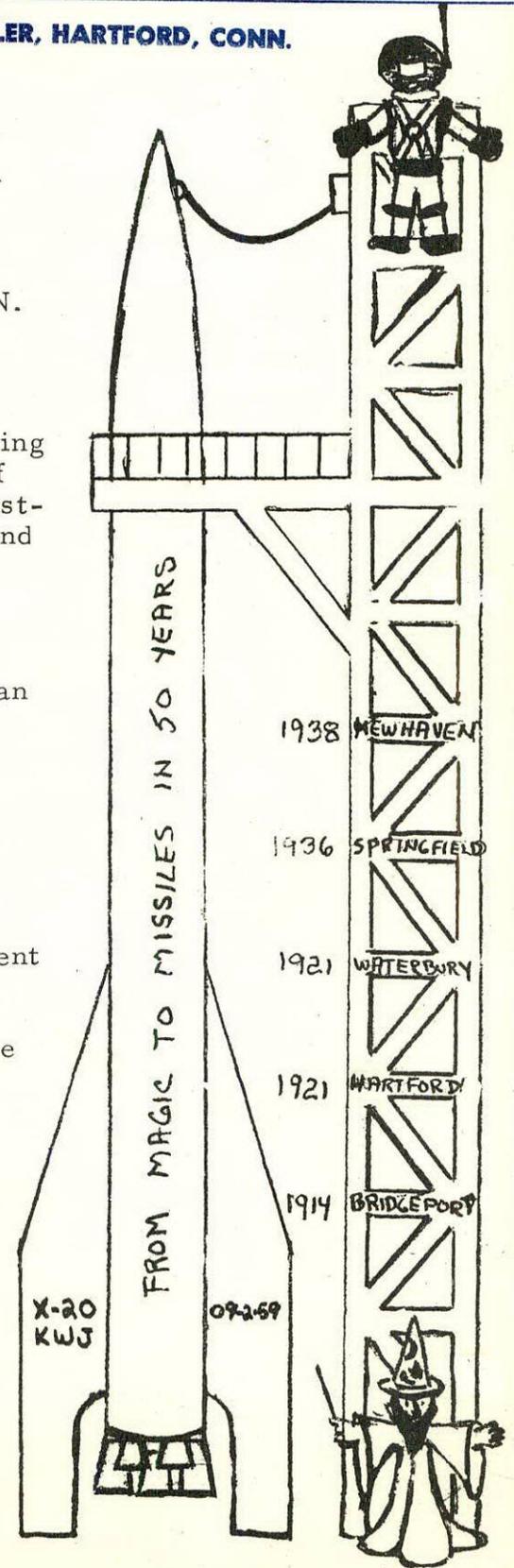
Valuable prizes and gifts are yours at an exciting Bingo party with our amiable, Bob Boulay, M.C., and friend of the A.E.S.

Every lady will receive an interesting gift if her ticket stub is returned by April 6th -- PLEASE!!

Chairman and Chairlady of Entertainment
Mr. & Mrs. Charles A. Kuster

The following gracious ladies will serve as Hostesses:

- Waterbury
Mrs. Henry Strowe
Mrs. Frank Tirendi
- Hartford
Mrs. Arnold Johnson
Mrs. Walter Dyber
- Springfield
Mrs. Charles Griffin, Jr.
Mrs. Edward Koetsch, Jr.
- Bridgeport
Mrs. Mike Tamas
Mrs. Al Ferguson
- New Haven
Mrs. George O'Conner, Jr.
Mrs. Harry Taylor



Host Branch
WATERBURY
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Waterbury, Conn.

Secretary -
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Southington, Conn.

Entertainment -
NEW HAVEN
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Springfield 8, Mass.

METAL PROGRESS

PUBLISHED BY THE AMERICAN SOCIETY FOR METALS

7301 EUCLID AVENUE

CLEVELAND 3, OHIO

CABLE ADDRESS: "ASM CLEVELAND"

April 24, 1959

APR 27 1959

Mr. Rodney Leeds, Editor
PLATING
American Electroplaters' Society, Inc.
445 Broad Street
Newark 2, New Jersey

Dear Rodney:

Again, thanks for your help in putting this writeup together. Thought you would like to see how it turned out. It will appear in June issue of Metal Progress.

Best regards.

Yours very truly,


Allen G. Gray
Editor

AGG:jmm

Enc.

In the spring of 1909 two dozen foremen platers got together to pool their information on electroplating, metal finishing and allied arts. Out of their planning the National Electro-Platers' Association of the United States and Canada (N. E. P. A.) came into being, reorganized in 1913, as today's American Electroplaters' Society (A. E. S.). From these beginnings the Society has grown into a world-wide technical organization with 58 autonomous branches and some 8000 individuals who pride themselves in their membership. Individually and as a group they have fostered the development of metal finishing along scientific lines, so important to industry today.

Plating and finishing have come a long way in the 50 years that the American Electroplaters' Society has been in existence. In many plants turning out metal goods, processes required to give desired surface appearance and needed corrosion resistance represent one third to one fourth of the total activities. This is because durability and appearance are among the most important attributes of any product. Today, finish is a potent factor in sales appeal. More than a billion dollars are invested in plating and finishing equipment and the value added to a product by finishing processes may vary from a fraction of its cost to more than 50%.

Plants now use large tanks of plating solutions, precisely controlled, compared to the small vats of the past which were maintained largely by

trial-and-error because of the operator's limited knowledge of the scientific principles. Other finishing has developed significantly too; operations are mechanized and precisely controlled. Even so, there's a definite trend toward putting more science into the art of finishing. More and more the selection of materials for a product is being considered in light of the type of finish which is desired. Whether in the laboratory or plant, progress in finishing will demand application of the most advanced principles of engineering, metallurgy, chemistry and physics.

The occasion of the 50th anniversary celebration this month, at A. E. S. 's Golden Jubilee Convention and Industrial Finishing Exposition, in Detroit, is a fitting time to reflect on the motto of the original National Electro-Platers' Association -- a maxim by Amiel so cherished that it prefaced the preamble of N. E. P. A. 's constitution and bylaws:

"I shall pass through this world but once.

Any good thing, therefore, that I can do, or any kindness that I can show to any human being, let me do it now.

Let me neither defer nor neglect it, for I shall not pass this way again."

The growth and many contributions made by A. E. S. is indisputable evidence that the precepts of its founders have been followed. May the future be even brighter!



THE WHITE HOUSE
WASHINGTON

5/30

Mr Head.

I believe the
President plans to
send you his message
shortly. In anticipation
of this I am glad
to enclose the photograph
you requested.

F Fx

JUN 1 1959

THE WHITE HOUSE
WASHINGTON

5/26

Mr Head

Here is the
photograph you requested.

I believe the
President's message will
be dispatched closer to
your convention date.

F. J. F.

MAY 27 1959

May 25, 1959

Mr. Frederic Fox
Special Assistant
In the White House
The White House
Washington, D. C.

Dear Mr. Fox:

Entirely out of a deep desire to be helpful, I am taking the liberty of attaching correspondence that passed between us in March 1959 relative to the message intended to be sent by the President to our GOLDEN JUBILEE Convention, whose Grand Opening will occur within approximately the next fortnight.

All of us are anticipating that message greatly. I wonder whether it would be possible at the same time to receive a glossy photograph of President Eisenhower.

Inasmuch as you have stated that we can use the message in any manner which seemed appropriate to us, we are planning not only to have it read at the Grand Opening Session of the Convention but also to publish it with the photographs in the July issue of our PLATING MAGAZINE.

In this connection, I am also sending you an advance copy of our Opening News Release together with some other data that may merit your interest.

Please know how very much we have appreciated your own splendid cooperation.

Sincerely,

AMERICAN ELECTROPLATERS' SOCIETY, INC.

Herberth E. Head
President

Enclosures

AMERICAN ELECTROPLATERS' SOCIETY

HEADQUARTERS
445 BROAD STREET, NEWARK 2, N. J.
TELEPHONE: HUMBOLDT 2-3400

June 11, 1959

Dear Mr. President:

What a beautiful message that is that we have just had the privilege and great honor of receiving from you greeting our members on the occasion of the opening of the GOLDEN JUBILEE Convention of this Society to occur in Detroit Monday, June 15.

It is a message that will be considered another milestone in the half-century history of this Society.

I shall read it to our plenary session on Monday with great pride, and it will also be published, together with your photograph, in the July issue of our PLATING MAGAZINE having global distribution in scientific and technical circles.

Please accept the hearty thanks of our governing council, of our members, and of our staff for those meaningful words that will be an inspiration to all of us as we embark on our next half-century of service to the public interest.

Sincerely,

Harberth E. Head
President

President Dwight D. Eisenhower
The White House
Washington, D. C.