MUZZLE BLASTS, Official Magazine of the NATIONAL MUZZLE LOADING RIFLE ASSOCIATION, Published month-ly by the Association on the 15th of every month at 12 E. Franklin St., Shelbyville, Indiana.

Shelbyville, Indiana.

OFFICERS

AND EXECUTIVE COMMITTEE:

M. G. VANWAY
President — Shelbyville, Indiana
ED MILAM
First Vice President — Lodi, Ohio
MERRILL P. DEER
Third Vice President
Route 1, Bargersville, Indiana
GEORGE CARRICO
Past President, Emeritus
1234 Diversey Avenue, Chicago 14, Illinois
E. M. FARRIS
Public Relations Officer — Portsmouth, O.
JUANITA B. STEED
Secretary — Portsmouth, Ohio
HELEN W. EVANS
Treasurer — Gwynneville, Indiana
HENRY THOMAN
Chief Range Officer — Shelbyville, Ind.
ALFRED G. STEUER
2596 South Road, Cincinnati, Ohio
ROBERT G. TINGLE
Shelbyville, Indiana
J. E. EVANS
Editor — Gwynneville, Ind.
DIRECTORS
WITH TERMS ENDING 1960

DIRECTORS
WITH TERMS ENDING 1960
JAMES LEMON

JAMES LEMON
Friendship, Indiana
DONALD W. SCHUERMAN
3394 Algus Lane, Cincinnati 11, Ohio
DON COBLE
Route No. 1, Box 279, Bellefonte, Pa.
EARL PEPIOT
Browns Run Rd., Rt. 1, W. Middletown, O.
NEIL GUTHRIE
Box 124, Fountain City, Indiana
GWYN D. LIDDELL
1011 No. Ave. F, Lamesa, Texas
LAURA M. BROOKS
Lowell, Ohio
LaDOW JOHNSTON
2435 Copland Blvd., Toledo 9, Ohio
ROBERT G. TINGLE
Shelbyville, Indiana
NEAL A. WESLEY
6715 So. Ada St., Chicago 36, Illinois
DIRECTORS

Shelbyville, Indiana
NEAL A. WESLEY

6715 So. Ada St., Chicago 36, Illinois
DIRECTORS
WITH TERMS ENDING 1961
MRS. ELLYN GROTE

1106 12th St. N. W., Canton, Ohio
JESSE BOOHER
2751 Ridge Ave., Dayton, Ohio
LEWIS HORTON
Main St., Southboro, Mass.
H. A. BOLTZ
RFD 6, Marion, Ind.
BRADFORD ROBERTS
419 So. E. St., Gas City, Ind.
H. E. RESLEY
Box 1132, Ft. Stockton, Texas
ALBERT E. LEAF
2729 Portland Ave., Louisville 12, Ky.
T. W. PIKE
RFD 4, Lisbon, Ohio
W. G. FARMER
463 E. Maxwell, Lexington, Ky.
MARSHALL GARDNER
131 No. Madison St., Knightstown, Ind.
DIRECTORS
WITH TERMS ENDING 1962
REX FENLEY
1121 Marston, Ames, Iowa
JAMES A. COON
819 Catalpa Ave., Lima, Ohio
L. A. JENSEN
R. No. 5, Box 272, Lake City, Florida
GEORGE WORTNER
RR. No. 1, Chatham, Ontario, Canada
HELEN W. EVANS
Gwynneville, Indiana
MYLO TAYLOR
221 Granada, Long Beach, California
WAYNE E. WILSON
Box 101, Grant Park, Illinois
LT. COL. V. K. GOODWIN
1207 West St. Annapolis, Maryland
MAX VICKERY
No. 4 Fire Station, Muncie, Indiana
ENNEST SWAIN
6378 Renter Ave. Dearborn, Michigan
5UBSCRIPTION AND MEMBERSHIP
RATES \$3.00 per year; Life Membership,
100 Single Copy, 25 cents Reentered as

SUBSCRIPTION AND MEMBERSHIP RATES \$3.00 per year; Life Membership, \$50.00. Single Copy, 25 cents Reentered as Second Class Matter, at Shelbyville,

#### Life Members

Welcome to the new Life Member Mr. Don Mott, Hereford, Arizona

# THANKS

If you have taken note of the July and August issues of "Muzzle Blasts" you will have distinguished from previous issues that we have hit a new high of 28 pages. WHY?

Because, among our members we have a truly co-operative interest in the publishing of the Association publication. We are greatly indebted to each and everyone of you who have so willingly submitted material dealing with the whys and wherefore's of muzzle loading. We gratefully accept any and all contributions in our office, - and just because it doesn't appear within the next few issues, have heart, - space limitations rule us out many times. Current news and scores are a must - articles on muzzle loading arms, club news, How and Who Made Em along with our regular features all these follow up to comprise your monthly issue.

So, for you members, we 'upped' to 28 pages. Use them to express your desires, wants and experiences, for as the membership grows so grows the 'Muzzle Blasts' - Good Luck!

#### PLEASE, PLEASE, PLEASE

Check your prices in MUZZLE BLASTS before ordering your targets.

## --0--ON COVER

Close up of A Roth Rifle. (See Article)

-0--

Classified advertisements in MUZZLE BLASTS reach the shooters who may be interested in the prices you have or may want the articles you want to sell or trade.

A membership in the N.M.L.R.A. makes a very welcome gift to one of your gun loving friends.

## --0-DECEASED

MR. FREEMAN S. CHURCH 9247 S. Winchester Ave., Chicago 20, Illinois

> MR. J. C. DAILY 112 Giles St., Bluefield, W. Va.

# INDEX

com

SPECIAL FEATURES Pa	ige
"Es Posible" in Cuba, by Adams	6
Hints, by Rockel	11
MAJOR ARTICLES	
Charles Roth, by James Pugh	4
The Miled Musket, by J. D. Jarnagin, Jr	6
Shot Gun Experiences, by Gary B. White	7
Indiana Gunmakers of the 19th Century — Lindert	8
Minie Bullets in the Arctic, by W. D. Bell	10
Flint Locks Old and New, by Burnham	12
Antique Microgroove Rifling, by Robert Held	22
REGULAR FEATURES	
"The Old Timer"	6
Windage and Elevation, by Farris	0
Who Made Em	10
On Target	20
Lines to an Old Rifle, Harry W. Merklee	21

, and as good au-

his meettic papers cers.

s, Pres. Pres.

ns of

held at King-Septemas adopt-

tions in after or hat Wilkes Barre Aug. 26, 1840.

Guns! Guns!! Gun

sion Caps, Power der Fluske ches,

all of which ar

New Rif

All v upod T"

C. H. ROTH. es-Pare, Aug. 26, 1840. 49-tf

erms.

of Con the Wy

escrip-

eces made

t manrar and

Wilk

the Conzerne, for Common pointed the Couto hear if you the

Your United