

Second Pacific Area National Meeting

Symposium on

RADIOISOTOPES



Published by the
AMERICAN SOCIETY FOR TESTING MATERIALS
1916 Race St., Philadelphia 3, Pa.

ASTM Special Technical Publication No. 215

SYMPOSIUM ON RADIOISOTOPES

Presented at the
SECOND PACIFIC AREA NATIONAL MEETING
Los Angeles, Calif., September 21, 1956
AMERICAN SOCIETY FOR TESTING MATERIALS



Reg. U. S. Pat. Off.

ASTM Special Technical Publication No. 215

Price \$2.75; to Members \$2.20

Published by the
AMERICAN SOCIETY FOR TESTING MATERIALS
1916 Race St., Philadelphia 3, Pa.

NOTE.—The Society is not responsible, as a body, for the statements
and opinions advanced in this publication.

COPYRIGHT, 1958
BY THE
AMERICAN SOCIETY FOR TESTING MATERIALS

Printed in Baltimore, Md.
December, 1957

CONTENTS

	PAGE
Introduction—Charles E. Crompton.....	3
Electroplating and Metal Preservation Studies Utilizing Radioisotopes—Stanley L. Eisler.....	5
Discussion.....	13
Evaluation of Rubber Deterioration by Means of Phosphorus-32—J. F. Young and C. W. Richards.....	14
Discussion.....	18
Autoradiography as a Testing Technique—Milton J. Schlesinger and Henry J. Gomberg.....	20
Discussion.....	28
Use of Radioactive Tracers in the Study of Soil Removal and Detergency—E. B. Ashcraft.....	30
Discussion.....	41
Refinery Scale Applications of Radioactive Tracers—V. P. Guinn, H. R. Lukens, Jr., and C. D. Wagner.....	42
Discussion.....	53
Activation Analysis for Industry—Abel DeHaan.....	54
Discussion.....	61
Thickness, Density, and Concentration Gaging with Radioisotopes—R. L. Newa-check, J. Kohl, and D. L. Forrest.....	62
Discussion.....	72
Will ASTM Standards Be Influenced by Radiation Effects in Metals?—J. C. Wilson and R. G. Berggren.....	73
Discussion.....	80
The Problem of Establishing Specifications for Irradiated Organic Materials—O. Sisman.....	81
General Discussion—Paul C. Aebersold.....	92

