

October 1970

Vol. Three No. Four

FLUORIDE

OFFICIAL QUARTERLY JOURNAL

OF

INTERNATIONAL

SOCIETY for

FLUORIDE

RESEARCH



OFFICERS

Vice-President
Prof. A.W. Burgstahler
Lawrence, Kansas

President
P.E. Zanfagna, M.D.
Lawrence, Massachusetts

Secretary
G.L. Waldbott, M.D.
Detroit, Michigan

ADVISORY BOARD

Prof. G. Frada
Institute of Occupational Medicine
University of Palermo, Italy

Prof. J.B. Patrick
Mary Baldwin College
Staunton, Virginia

H.M. Sinclair, M.D., D.Sc.
Magdalen College
Oxford, England

K. Garber, Dr. Ret. Nat.
State's Institute for Applied Botany
Hamburg, Germany

Prof. F. Pinet
Lyon, France

Prof. D.G. Steyn
Silverton, Pretoria,
South Africa

Prof. S.S. Jolly
Medical College
Patiala, India

Prof. Dr. Rosenberger
Veterinary University
Hannover, Germany

Prof. René Truhaut
Faculté De Pharmacie
Université de Paris, France

J.V. Marhold, M.D., Ph.D.
Research Institute for
Organic Synthesis
Pardubice, CSSR

Prof. A.H. Siddiqui
Hyderabad, India

EDITORIAL BOARD

MUDr. Gabriela Balazova, CSC.
Vyskumny Instav. Hygien
Bratislava, Czechoslovakia

Prof. G. Neil Jenkins
The Dental School, Univ. of
Newcastle Upon Tyne,
England

Prof. Aly H. Mohamed
University of Missouri
Kansas City, Mo.

Roger J. Berry, M.A., M.D., D. Phil.
Headington, Oxford, England

Jerry Krechniak, PH.D.
Medical Academy
Univ. of Gdansk, Poland

Prof. Albert Schatz
Temple University
Philadelphia, Pa.

Dr. Ernest Bovay, Director
Federal Agric. Research Station
Liebefeld-Bern, Switzerland

John R. McLaren, M.D.
Robert Winship Memorial Clinic
Emory University
Atlanta, Georgia

Carlo Mangoni di S. Stefano, M.D.
Institute of Human Physiology
University of Naples, Italy

Dr. Gottfried Halbwachs
Hochschule Fur Bodenkultur
Vienna, Austria

S.P.S. Teotia, M.D.
King George's Medical College
University of Lucknow, India

FLUORIDE

Issued Quarterly by

THE INTERNATIONAL SOCIETY FOR FLUORIDE RESEARCH

Editor
G. L. Waldbett, M.D.
Detroit, Michigan

Co-Editor
A. W. Burgstahler, Ph.D.
Lawrence, Kansas

CONTENTS

EDITORIAL:

Fluoride in Osteoporosis 164

ORIGINAL ARTICLES

Fluoride Content and Microradiographic Findings in Skeletal Fluorosis—V. Freitag, W. Oelschlager and K. Loeffler, Homburg (Saar) and Hohenheim, Germany 167

Fluoride Effects on Bone Morphology and Calcium Kinetics—C. F. Ramberg, Jr., and S. E. Olsson, Kennett Square, Pa. and Stockholm, Sweden 175

Toxicology of Chlorotrifluoroethylene—H. Walther, H. D. Fischer, J. Jager, Ch. Kemmer and K. Kunze, Dresden, W. Germany . . 181

Effect of Large Doses of Sodium Fluoride on Fluoride and Minerals in Blood Serum, Hair and other Bovine Tissues—J. Tuml and L. Slesinger, Pohorelice, Czechoslovakia 188

Genetic Effects of Hydrogen Fluoride on *Drosophila Melanogaster*—A. H. Mohamed and P. A. Kemner, Kansas City, Missouri 192

Notes on Hydrofluoric Acid Burns—E. Scharizer, Mannheim, Germany 200

SPECIAL ARTICLE

Fluoride and Nutritional Osteoporosis—P. A. Henrikson, L. Lutwak, L. Krook, F. Fallfelz, B. E. Sheffy; R. Skogerboe; L. F. Belanger, J. R. Marier; B. Romanus and C. Hirsch 204

ABSTRACTS

Endemic Fluorosis—D. Bhaskara Reddy and C. Mallikharjunarao and D. Sarada, Guntur, India 208

Fluoride in Osteoporosis: Clinical and Quantitative Histological Studies on Bone Structure and Bone Remodelling—F. W. Reutter, R. K. Schenk and W. A. Merz, St. Gallen, Switzerland . 209

Chronic Fluoride Ingestion in Rabbits: Absence of Ocular Effects—M. A. Gloome and H. M. Burian, Iowa City, Iowa . . 210

Treatment of Osteoporosis with Sodium Fluoride, Morphological Skeletal Findings in Eight Cases—F. Kuhlencordt, H. P. Kruse, C. Lozano-Tonkin and L. Eckermeier, Hamburg, W. Germany . 211

INDEX

Authors 212

Subjects 214

The fourth ISFR conference will held at The Hague, Holland, October 24, 1971. The January issue of FLUORIDE will present further details including information about submission of abstracts of papers.

FLUORIDE is published quarterly by THE INTERNATIONAL SOCIETY FOR FLUORIDE RESEARCH, INC., 2930 West Grand Boulevard, Detroit, Michigan 48202. Phone TRinity 2-6602 (Area Code 313.)

SUBSCRIPTION RATES – Price per annum in advance including postage \$12.00; Single copies \$3.50. Cost for I.S.F.R. members \$4.00 annually.

MANUSCRIPTS for publication should be submitted in English, double-spaced with generous margins. References should be arranged according to the order in which they are cited in the text, as follows: Author, title, journal, volume, pages and year. Each paper must contain a summary of not more than 12 lines.

Contributors will receive 10 copies of the issue of FLUORIDE containing their paper, free of charge.

FLUORIDE is listed in
Current Contents Agricultural
Food and Veterinary Sciences