

---

---

Journal of the  
SANITARY ENGINEERING DIVISION  
Proceedings of the American Society of Civil Engineers

---

---

SANITARY ENGINEERING DIVISION  
EXECUTIVE COMMITTEE  
Richard R. Kennedy, Chairman; Ray E. Lawrence, Vice-Chairman;  
Richard Hazen; Lewis A. Young; Arthur D. Caster, Secretary

COMMITTEE ON PUBLICATIONS  
L. W. Santry, Jr.

CONTENTS

November, 1959

Papers

	Page
New Developments in Sewage Sludge Treatment by F. G. Nelson and W. E. Budd . . . . .	1
20 Years of Sewage Sludge Burning at Barberton, Ohio by Charles G. Pettit . . . . .	17
Evaluation of Education and Research in Solid Wastes Engineering Twenty-fourth Report of the Committee on Sanitary Engineering Research of the Sanitary Engineering Division . . . . .	25
Metropolitan Section, ASCE, Seminar on Sanitary Engineering Research Twenty-fifth Progress Report of the Committee on Sanitary Engineering Research of the Sanitary Engineering Division . . . . .	33
Refuse Volume Reduction in a Sanitary Landfill Twenty-sixth Progress Report of the Committee on Sanitary Engineering Research of the Sanitary Engineering Division . . . . .	37

(Over)

	Page
Mean Residence Time of a Liquid in a Trickle Filter by Morton D. Sinkoff, Ralph Porges and James H. McDermott . . .	51
Waste Water Reclamation for Golf Course Irrigation by Robert C. Merz . . . . .	79
A Balanced Ecological System for Space Travel by Linvil G. Rich, William Marcus Ingram and Bernard B. Berger . . . . .	87
Industrial Waste Disposal Tailored to Stream Flow by C. J. Velz . . . . .	95
The Waste Water Role in Meeting Water Requirements by Max Bookman . . . . .	111
Sludge Disposal in Philadelphia by Samuel S. Baxter . . . . .	127
Control of Air Pollution in Los Angeles County by Robert L. Chass . . . . .	143
Salaries of Local Environmental Health Personnel in 1956 Report of the Committee on Salaries Conference of Municipal Public Health Engineers . . . . .	163