

CONTENT

	Page
OPENING SESSION	1
WELCOMING REMARKS	2
KEYNOTE ADDRESS – SOLID WASTES : A NATIONAL RESOURCE	3
<u>SESSION NO. I – UTILIZATION OF INDUSTRIAL WASTES</u>	5
RECOVERY OF METALLURGICAL VALUES FROM INDUSTRIAL WASTES	7
THE SUCCESSFUL UTILIZATION F IRON & STEEL SLAGS	15
ASH UTILIZATION TECHNIQUES PRESENT AND FUTURE	23
UTILIZATION OF HIGH ASH PAPERMILL WASTE SOLIDS	31
PRODUCTION OF MINERAL WOOL INSULATING FIERs FROM COAL ASH SLAG	43
<u>SESSION NO. II – UTILIZATION OF FERROUS AND NONFERROUS SCRAP METAL</u>	53
RECYCLING OF FERROUS SCRAP	55
NEW DEVELOPMENTS IN USE OF FERROUS SCRAP	59
FOUNDRY IRON PRODUCTION FROM AUTOMOBILE SCRAP	67
RESEARCH ON PROCESSING SYSTEMS FOR AUTOMOTIVE MATERIALS	79
A PROFILE OF THE NONFERROUS SECONDARY METALS INDUSTRY	87
NEW TECHNOLOGY AND ECONOMIC FACTORS IN THE SECONDARY MATERIAL INDUSTRIES	107
SMELTING OF MILITARY ELECTRONIC SCRAP	113
ECONOMIC FACTORS AFFECTING THE SCRAP DEALER	119
<u>SESSION NO. III – UTILIZATION OF MINING AND MILLING WASTES</u>	123
SESSION INTRODUCTION	124
MINING AND MILLING WASTE DISPOSAL PROBLEMS – WHERE ARE WE TODAY?	125
FEDERAL – STATE RELATIONSHIPS IN MINERAL WASTE CONTROL	131
UTILIZATION OF COPPER, LEAD, ZINC AND IRON ORE TAILINGS	139
CERAMIC PRODUCTS FROM MINERAL WASTES	149
CRITERIA FOR SELECTION OF MINERAL WASTES FOR USE IN THE MANUFACTURE OF CALCIUM SILICATE BUILDING MATERIALS	155
RECOVERY OF COPPER FROM MICHIGAN STAMP SANDS	167
NORTH CAROLINA FELDSPAR TAILINGS UTILIZATION	177
POTENTIAL UTILIZATION OF MINE WASTE TAILINGS IN THE UPPER MISSISSIPPI VALLEY LEAD-ZINC MINING DISTRICT	181
OPERATION ANTHRACITE REFUSE	195
STABILIZATION OF MINERAL WASTES FROM PROCESSING PLANTS	205
PANEL DISCUSSION ON UTILIZATION OF MINING AND MILLING WASTES	215
PANEL DISCUSSION ON RECLAMATION OF MINE ANDMILLWASTES	221
PANEL DISCUSSION ON UTILIZATION OF COAL MINING WASTES	225
PANEL DISCUSSION ON MINNESOTA IRON MINING WASTES	229
PANEL DISCUSSION ON AGGREGATES	233
PANEL DISCUSSION ON DISPOSAL OF MINING WASTES IN THE CENTRAL FLORIDA PHOSPHATE FIELD	237
<u>SESSION NO. IV - UTILIZATION OF MUNICIPAL REFUSE</u>	241
MINERAL CONTENT OF MUNICIPAL REFUSE : NEW IDEAS IN HANDLING, DISPOSAL, AND REUSE	243
RESOURCE RECOVERY FROM INCINERATOR RESIDUE, A PROJECT REPORT	247
CONTINUOUS PHYSICAL BENEFICATION OF METALS AND MINERALS	255
VALUE RECOVERY FROM WOOD FIBER REFUSE	263
AIR CLASSIFICATION FOR RECLAMATION OF SOLID WASTES	271
A METHOD OF RECLAMATION AND PROCESSING OF SOLID WASTES	283

PYROLYSIS, HYDROGENATION AND INCINERATION OF MUNICIPAL REFUSE - A PROGRESS REPORT	299
CHEMICAL AND PHYSICAL CHARACTERIZATION OF METROPOLITAN INCINERATOR REFUSE AND FLYASH	313
HIGH TEMPERATURE INCINERATION	327
REFINING OF FERROUS METAL RECLAIMED FROM MUNICIPAL INCINERATOR RESIDUES	347
STRUCTURAL PRODUCTS MADE FROM HIGH-SILICA FRACTIONS OF MUNICIPAL INCINERATOR RESIDUES	355
UTILIZATION OF WASTE GLASS	363
USE OF WASTE GLASS FOR URBAN PAVING	369