Contents

I.	Opening Addresses	
	FRIEDRICH BENDER	14
	THOMAS KELLER	16
	KLAUS RACHWALSKY	18
	HANS-JOACHIM RÖHLER	19
	HORST HABENICHT	21
	KONSTANTIN LANGE	22
	OTTO BARCHE	26
II.	Introduction	
	GERD LÜTTIG	
	Geoscience and the potential of the natural environment	28
III.	Lectures of the Seminar	
	1. Geoscientific Mapping	
	RENIER VINKEN	
	Possibilities in the development of geological maps	42
	REINHARD PFLUG	
	Reconnaissance mapping in the Precambrian	
	of Eastern Brazil	52
	PETER KRONBERG, MARKWARD SCHÖNFELD, and	
	REINHARD GÜNTHER	
	Small scale mapping in Ethiopia, Somalia and Yemen using	
	field data, aerial photographs and ERTS 1-imagery	60
	KARL HEINRICH OLSEN	
	Some aspects of regional planning in exploiting	
	natural resources	63
	THEODOR KREY	
	The different stages in geophysical exploration for	
	natural resources	70
	HORST MENSCHING	
	Climato-hydrological aspects of the potential of the	
	resources in the zone of West Africa	77
	GILBERT GRASER	
	Problems of regional planning in the Hannover area with	
	special reference to natural resources	83

	FRIEDRICH NÖRING Geoscientific problems in a typical industrial area (Rhine-Main-area)	89
2.	Mineral Deposits	
	WOLF von ENGELHARDT	
	Resources and reserves of metals	92
	HEINRICH GUNDLACH	
	Geochemical prospecting - exploration for ore deposits -	
	inventory and monitoring of environmental conditions	105
	PETER KRONBERG	
	ERTS-1 shows buried structures	122
	GERHARD RICHTER-BERNBURG	
	Saline deposits-genesis and exploration	123
	KORE KUCKELKORN	
	The natural hydrocarbon potential of Central Europe	133
	GERD WIESEMANN	
	Potential of natural resources in Jordan	120
	(phosphat – soil – ground-water)	139
3.	Hydrogeology – Pedology – Waste Disposal	
	PAUL MEISER	
	Geophysical methods for ground-water exploration	153
	HANS BENDER	
	Planning for ground-water management in the Argentine	157
	HANS-JÜRGEN DÜRBAUM	
	Application of mathematical/physical models in ground-water	450
	exploration and economics in less developed countries	159
	FRANZ GRÜNEBERG	
	Land use capability of saline desert soils in Southern Jordan	160
	HALO LÜKEN	100
	Assessment of soil resources for agricultural development in	
	Paktia Province, Afghanistan (Summary Report)	179
	GEORG MATTHESS	
	Geologic considerations to minimize effects of waste	
	deposits on natural environments	183
	HEINZ BECKMANN	
	Underground storage of petroleum hydrocarbons	194
	ERWIN SUESS and HELMUT ERLENKEUSER	
	Anthropogenic metal and carbon input in Baltic Sea	
	sedimentary basins	203

4. Engineering Geology	
MICHAEL LANGER	
Engineering-geological aspects involved in the exploitation of the potential of the natural environment	216
KARL-HEINRICH HEITFELD Engineering geological problems of dams and reservoirs	223
JOSEPH NIEDERMAYER Hydrological and engineering-geological problems in	
the port area of Hamburg	232
IV. Closing Address and Recommendations	
GERD LUTTIG	239
V. List of Participants	243
VI. Illustrations	252