Contents

Foreword by Douglas Bowden, M.D. v	
Concerning the Book and Its Author xix	
From the Author xxi	
The Past 3	
War 6	
After Being Wounded 8	
The Rehabilitation Hospital 14	
Our First Meeting 17	
Excerpt from Case History No. 3712 21	
A Brief Summary of Brain Anatomy (The Fir Digression) 22	st
First Steps in a Shattered World 36	
His Vision 36	
His Body 41	
Space 46	
Reading 61	
A Student Again 65	
Writing, the Turning Point 71	
"The Story of a Terrible Brain Injury" 76	5
	xxii

Why Did He Write? 83

"My World Has No Memories" 87

"My Memories Came Back from the Wrong End"

The Peculiar Features of His "Speech-Memory"

On Recollecting Words (The Second Digression)

Restricted to Undeciphered Images, Disembodied Ideas 115

Grammatical Constructions (The Third Digression) 122

"All My Knowledge Is Gone" 139

A Story That Has No Ending 157

"Were It Not for War . . ." (In Place of an Epilogue) 159

Index 161

Index

agnosia, optical, 29 amnesia, Zasetsky's, see "speech-memory" aphasia: intellectual, 137, 138; Zasetsky's, 86, 137, 138 arithmetic, Zasetsky's loss of knowledge of, 145-149

body, Zasetsky's sense of, 41–45
brain, v, viii, xiii, 22–35; auditory-vestibular (temporal) section of, 30; blocks of the, 24–26, 30, 33–35; cortex of, see cortex; and equipotentiality principle, xiii; hemispheres of, 22, 26, 32, 33; injury to, 28, 31, 33, 34, 112, 113, 131; and localization-of-function principle, xii; maps of, xii, 23; subcortical nuclei of, 23; tactile-motor (parietal) section of, 30; tumor of, ix; visual (occipital) section of, 30

brain stem, 24 Broca, Paul, 32

case endings, in grammatical constructions, 125-126 checkers, played by Zasetsky, 152 chess, played by Zasetsky, 150-152 cognition: factors affecting, 29, 30; and language, 32-33 162 INDEX

comprehension, 123

cortex, x, xii, 22, 23, 25, 30, 140; in "damped" condition, 113, 114; injury to, 28, 31, 33, 113, 128; and "law of strength," 113; primary visual, 26, 27, 28; secondary visual, 27, 28, 31; stellate cells of, 27, 28; tertiary sectors of, 30–31, 32, 33

"damped" cortical condition (Pavlov),
113, 114
disembodied idea, Zasetsky's, 115-122
passim
dominoes, played by Zasetsky, 152-153

electric shock, 27 empathy, Zasetsky's capacity for, 155 energizing block of brain, 24–26 extended sentence structure, 123, 124

fantasy, Zasetsky's capacity for, 155

games, played by Zasetsky, 150–153
geometry, Zasetsky's loss of knowledge
of, 142–144
Goldstein, K., 23
grammatical constructions, 122–139 passim; see also language; linguistic analysis; words
gray matter, 23, 24
Gulliver's Travels (Swift), 100

hemianopsia, 28

INDEX 163

ideas, disembodied: Zasetsky's, 115-122

passim

"I'll Fight On" (Zasetsky), 76

images, undeciphered: Zasetsky's, 115122 passim

imagination, Zasetsky's capacity for, 155

inversion, grammatical, 124, 125

Kimovsk, Zasetsky in, 58–59, 92, 97, 104, 157 "kinetic melodies," 72 Kisegach, Zasetsky in, 97

language, 123; and cognition, 32-33; see also grammatical constructions; linguistic analysis; words

Laputa (Swift), 109

linguistic analysis, 123, 129-130; see also grammatical constructions; language; words

memory, 109–112, 140; see also "speechmemory" movies, Zasetsky at, 153–154 music, and Zasetsky, 154–155

neurons, 24; number of, in brain, 24 neuropsychology, ix, xiii; defined, viii

occupational therapy, 47 optic radiation, 28, 31 optic thalamus, 24

parts of speech, relationships expressed through, 127

Pavlov, I. P., 23, 113 Penfield, W., 27 Pötzl, O., 27

radiation, optic, 28, 31 radio, and Zasetsky, 116, 117 reading, and Zasetsky, 61-71, 74, 117

Sechenov, I. M., 23 sentence structure, 123-139 passim; direct, 123; extended, 123, 124 shock, electric, 27 "spatial peculiarities," Zasetsky's, 46-61 speech comprehension, xiii-xv "speech-memory": peculiar features of Zasetsky's, 101-108; Zasetsky's loss of, 87-95, 141-142; Zasetsky's recovery of, 95-101; see also memory stellate cells of cortex, 27, 28 "Story of a Terrible Brain Injury" (Zasetsky), 76 stroke, ix Swift, Dean, 109 syntax, see sentence structure

thalamus, optic, 24 tonus-regulating block of brain, 24–26 *Traumatic Aphasia* (Luria), vi, xi Tula, 89; Zasetsky in, 56–57 Tula Polytechnic Institute, 141

undeciphered images, Zasetsky's, 115-122 passim

vision, Zasetsky's, 36-41

war, Zasetsky's condemnation of, 159–160
Wernicke, C., 32
white matter, 23
words, recollection of, 110–112, 114; see
also grammatical constructions; language; linguistic analysis

writing: as automatic skill, 72; by Zasetsky, 71-75, 76-86

Zasetsky, L., 8-14, 35-36; capacity for empathy, 155; capacity for fantasy, 155; capacity for imagination, 155; childhood of, 3-5; description of brain injury, 21-22; disembodied ideas of, 115-122 passim; exercise by, 51; games played by, 150-153; in Kimovsk, 58-59, 92, 97, 104, 157; in Kisegach, 97; knowledge lost by, 139-157 passim; and Luria, first meeting with, 17-20; at movies, 153-154; and music, 154-155; occupational therapy for, 47; and radio, listening to, 116, 117; and reading, 61-71, 74, 117; in rehabilitation hospital, 14-16; restricted to undeciphered images and disembodied ideas, 115-122 passim; sense of body, 41-45; and "spatial peculiarities," 46-61; and "speech-memory," see "speechmemory"; test of comprehension by, 117; in Tula, 56-57; undeciphered images of, 115-122 passim; vision of, 36-41; war condemned by, 159-160; writing by, 71-75, 76-86