Psychological and Educational Perspectives on Learning Disabilities

EDITED BY

JOSEPH K. TORGESEN

Department of Psychology Florida State University Tallahassee, Florida

BERNICE Y. L. WONG

Faculty of Education Simon Fraser University Burnaby, British Columbia Canada



ACADEMIC PRESS, INC.

Harcourt Brace Jovanovich, Publishers
Orlando San Diego New York Austin
London Montreal Sydney Tokyo Toronto

Contents

Contributors

χi

Preface

xiii

Definition, Identification, and **Assessment**

1. Problems and Issues in the Definition of Learning **Disabilities**

Bernice Y. L. Wong

Problems in Operationalizing the Definition of Learning Disabilities

Psychological Process Problems

Definitional Problems Arising from Different Demands on the LD **Definition by Different Interest Groups**

Research Problems in LD

Epilogue

21

References

22

2. LD Research in Sociological and Scientific Perspective

Gerald M. Senf

Introduction 27

More than Ignorance at Work 28

The Casualties

Science Meets Social Reality 30

Other Sample Bias 31

vi CONTENTS

Problems in Defining the LD Sample 33
Issues Having Research Implications 34
Band-Aid Approaches to Heterogeneity 36
The Context of Classification 38
Classification as Pragmatic 39
Classification as Theory 40
Normal Theory and Deviant Subgroups 42
Alternative Grouping Strategies 43
Empirically Defined Groups 45
Rationally Defined, Clinical/Intuitive, and Behavioral
Grouping 46
The Sociological Context of Educational Failure 49
References 51

3. Approaches to Assessment

Gerald Tindal and Doug Marston

Introduction 55

Issues in Current Models of Assessment 56

Issues and Problems in Identification and Classification

59

Issues and Problems in Instructional Planning and

Evaluation 64

An Alternative Model of Assessment Using Direct and Frequent

Measurement 67

References 79

Part II. Psychological Characteristics of Learning-Disabled Children 85

 Cognitive Processes and the Reading Problems of Learning-Disabled Children: Evaluating the Assumption of Specificity

Keith E. Stanovich

Introduction 87

What Cognitive Problems Are Associated with Delayed Reading

Acquisition? 88

Conclusions: The Assumption of Specificity Revisited 110

CONTENTS vii

5. Why Some Children Encounter Reading Problems: The Contribution of Difficulties with Language Processing and Phonological Sophistication to Early Reading Disability Virginia A. Mann

Introductory Comments 133

Decoding a Written Representation of Spoken Language: What Skilled Reading Is "All About" 134

The Problem of Specific Reading Difficulty 140

Inadequate Language Skills Are Often Associated with Reading Difficulty 142

The Relation between Reading Difficulty and Difficulties with Language Processing 143

The Relation between Reading Difficulty and Deficient Phonological Sophistication 147

Some Possible Origins of Deficient Language Skills 149

Concluding Remarks 153

References 154

6. Attention Problems in Youngsters with Learning Handicaps

Antoinette Krupski

Introduction 161

Sustained Attention 164 Selective Attention 171

Summary and Concluding Comments 186

References 188

7. Social Relationships of Learning-Disabled Children

Ruth Pearl, Mavis Donahue, and Tanis Bryan

Introduction 193

Attitudes of Others toward Learning-Disabled Children Learning-Disabled Children's Social Behavior 201

194

Explanations of Behavioral Differences 208

Social Remediation 213

viii CONTENTS

Motivational Problems of Learning-Disabled Children: Individual Differences and Their Implications for Treatment

Barbara G. Licht and Janet A. Kistner

Introduction 225

Children's Perceptions of Their Abilities: A Developmental

Analysis 229

Patterns of Teacher Feedback
Goal Structure of the Classroom
Attribution Retraining Treatments
238
238

Conclusions 248 References 249

Part III. Treatment Approaches 257

9. The Effects of Psychostimulant Drugs on Learning and Academic Achievement in Children with Attention-Deficit Disorders and Learning Disabilities

William E. Pelham, Jr.

Introduction 259

Laboratory Studies 260 Classroom Studies 266

Concurrent Interventions 278

Interpretational Issues

Conclusions 285 References 288

10. Applied Behavior Analysis and the Correction of Learning Disabilities

282

Mark A. Koorland

Introduction 297

Behavioral Instructional Practices 299

Experimental Logic and Design Considerations 305

Recent Research 312
Future Directions 324

CONTENTS ix

11. Intervention Issues Related to the Education of LD Adolescents

Jean B. Schumaker, Donald D. Deshler, and Edwin S. Ellis

Introduction 329

Specification of Skill Instruction 336

Enhancing the Intensity of Instruction 342

Accommodating Curricular Expectations 347

Facilitating Independence versus Dependence 353

Conclusion 359 References 360

12. Cognitive Behavior Modification: Promoting Active, Self-Regulatory Learning Styles

Ellen Bouchard Ryan, Keri A. Weed, and Elizabeth J. Short

Learning-Disabled Children as Passive Learners

Cognitive Behavior Modification as an Approach to

371 Intervention

Promoting Active Self-Regulatory Learning Styles 375

367

412

Methodological Issues and Future Directions 390

References 392

13. The Role of Phonemic Analysis in Reading

Joanna P. Williams

Introduction 399

The Beginnings of Interest in Auditory Skills 400

A Focus on Phonemic Analysis 401

Phonemic Analysis Training 403

The Relationship between Phonemic Analysis and Instructional Methods 406

Does Reading Improve Phonemic Skill? 408

Should Letters Be Used in Phonemic Training? 410 Related Reading Problems in Older Children

Summary 412

X CONTENTS

14. Computer-Assisted Instruction with Learning-Disabled Children

Joseph K. Torgesen

Introduction 417

Evaluation of Computer-Assisted Instruction 418
Potential Uses of Computers with LD Children 422

Needs for the Future 430

References 433

Author Index 437 Subject Index 457