

TABLE OF CONTENTS

Editor's Foreword	v
List of Congress Sponsors, Committees and other Organizational Matters	VII

PART I

A. HISTORY OF PHONETICS

Muhammed H. BAKALLA: Ancient Arab and Muslim Phoneticians: An appraisal of their contribution to phonetics	3
Arthur J. BRONSTEIN and Lawrence J. RAPHAEL: Phonetics and Other Disciplines: Then and now	13
E. F. Konrad KOERNER: Toward a Historiography of Phonetics	23
Jens-Peter KÜSTER: Giulio Panconcelli-Calzias Beitrag zur Geschichte der Phonetik	37
Elbert R. MOSES: Looking Back: Memories of 40 years in phonetics	49

B. ISSUES OF METHOD AND THEORY IN PHONETICS

Uzbek BAITCHURA: On the Necessity of the Introduction of Technical Principles into Instrumental-Phonetic Investigations	57
R. A. W. BLADON: Some Control Components of a Speech Production Model	63
E. A. KRASHENINNIKOVA: Phonetic Aspects of Lingua-	

TABLE OF CONTENTS

Informatics	71
Morteza MAHMOUDIAN: Dimension statistique de la structure linguistique et distinction phonétique/phonologie	77
Mehra M. MEHAN: Linguistics and Systems Theory . . .	85
Marcel A. A. TATHAM: Some Problems in Phonetic Theory	93

C. LARYNGEAL FUNCTION

Louis-Jean BOË et Bernard GUÉRIN: Caractéristique de forme de l'onde de débit des cordes vocales: Productions vocaliques	109
Gérard F. CHOLLET and Joel C. KAHANE: Laryngeal Patterns of Consonant Productions in Sentences Observed with an Impedance Glottograph	119
Osamu FUJIMURA: Physiological Functions of the Larynx in Phonetic Control	129
Hajime HIROSE, Hirohide YOSHIOKA, and Seiji NIIMI: A Cross Language Study of Laryngeal Adjustment in Consonant Production	165
John LARGE and Thomas MURRY: Quantitative Analysis of Chant in Relation to Normal Phonation and Vocal Fry	181
Magnús PÉTÚRSSON: Jointure et activité glottale . .	191
Peter J. ROACH and W. J. HARDCASTLE: Instrumental Measurement of Phonation Types: A laryngographic contribution	201
Ingo R. TITZE: Variations of Pitch and Intensity with Pre-Phonatory Laryngeal Adjustments	209
Idem: Physical and Physiological Dimensions of Intrinsic Voice Quality	217

D. TEMPORAL FACTORS AND QUESTIONS OF INTONATION

Keith O. Anderson: Applied Prosodic Analysis: A pedagogical model for English and German intonation . .	227
---	-----

TABLE OF CONTENTS

Heinz BALKENHOL: Rhythm and Pause as Means of Expression in the Japanese Arts of Storytelling, with special regard to Rakugo	235
Ivan FÓNAGY: Artistic Vocal Communication at the Prosodic Level	245
Herbert GALTON: Syllabic Division and the Intonation of Common Slavic	261
Sarah HAWKINS: Processes in the Development of Speech Timing Control	267
J. W. HICKS, Jr.: An Acoustical/Temporal Analysis of the Effect of Situational Stress on Speech	279
D. R. HILL, Wiktor JASSEM, and I. H. WITTEN: A Statistical Approach to the Problem of Isochrony in Spoken British English	285
E. F. JAMES: Intonation through Visualization . . .	295
Bienming JOU: Tonal Spelling	303
Elisabeth L'HOTE: Quelques problèmes posés par l'élaboration de règles prédictives de l'intonation . .	309
Anatoly LIBERMAN: Prephonological Views on the History of English Syllable Accents	321
D. Kimbrough OLLER: Syllable Timing in Spanish, English, and Finnish	331
Yvette SZMIDT: Le registre mélodique de l'attaque dans un parler franco-ontarien	345
Anne-Marie Ferrand VIDAL: "Mélodie-langage" des chœurs de Jean-Sébastien Bach	357
Max WAJSKOP: Temporal Cues in French Intervocalic Stops	363
François WIOLAND: Principes d'une méthode d'enseignement de la prononciation du français à partir du rythme de la langue parlée non méridionale	383

E. PHYSIOLOGICAL AND ACOUSTIC PHONETICS

D. AUTESSERRE and B. TESTON: Description of an

TABLE OF CONTENTS

Electropalatographic System	407
R. Prakash DIXIT: Inadequacies in Phonetic Specifications of Some Laryngeal Features: Evidence from Hindi	423
Solomon I. SARA: Vocalic Variability in Palatographic Impressions	435
S. SHIBATA, A. INO, S. YAMASHITA, S. HIKI, S. KIRITANI, and M. SAWASHIMA: A New Portable Type Unit for Electropalatography	443
Cynthia R. SHUKEN: Aspiration in Scottish Gaelic Stop Consonants	451
Peter S. VIG and James B. McLAIN: The Effect on Formant Patterns of Differential Volumetric Change in the Oral Cavity	459
Robert L. WHITEHEAD and Kenneth O. JONES: Characteristics of Oral Air Flow during Plosive Consonant Production by Hearing-Impaired Speakers	475

F. SPEECH PRODUCTION

John W. BLACK, Yukio TAKEFUTA, and Elizabeth JANCOSEK: The Production and Recognition of Sounds in English Words Spoken by Young Japanese Adults	489
R. A. W. BLADON: The Production of Laterals: Some acoustic properties and their physiological implications	501
G. H. BRECKWOLDT: African Click Sounds: Early descriptions and symbols	509
E. Dean DETRICH: Nasal Consonant Epenthesis in 'Southern' French	521
W. J. HARDCASTLE and Peter J. ROACH: An Instrumental Investigation of Coarticulation in Stop Consonant Sequences	531
Pierre R. LÉON: Standardisation vs. diversification	

TABLE OF CONTENTS

tion dans la prononciation du français contemporain	541
John M. LIPSKI: On Vowel-Diphthong Transitions	551
Leigh LISKER: Speech across a Linguistic Boundary: Category naming and phonetic description	563
William A. SAKOW: Comparative Analysis of Syllable and Accent between English and Japanese	573
Roman STOPA: Original Vowels in African Languages	577
László SZABÓ: Vowel Length in Micmac and Malecite	583

PART II

G. NEUROPHONETICS AND PSYCHOPATHOLOGY

Arnold E. ARONSON: Differential Diagnosis of Neuro- logic and Psychogenic Voice Disorders	591
John K. DARBY and Alice SHERK: Speech Studies in Psychiatric Populations	599
Harry HOLLIEN and John K. DARBY: Acoustic Compari- sons of Psychotic and Non-Psychotic Voices	609
Torgny JENESKOG and Carl-Gustaf SÖDERBERG: The Phy- siology of Cerebellar Involvement in Motor Control	615
Peter F. MacNEILAGE: Neural Mechanisms in Speech Productions	621
Catherine A. MATEER: Impairment of Verbal and Non- Verbal Oral Movements after Left Hemisphere Damage	639
Peter F. OSTWALD: Psychiatric Implications of Speech Disorder	647
Clyde L. ROUSEY: Phonetic Indications of Psychopa- thology	657
Carl-Gustaf SÖDERBERG and Torgny JENESKOG: Cerebel- lar Involvement in Motor Control: A concept	669

H. SPEECH PERCEPTION

Ana María BORZONE de Manrique: On the Recognition of Isolated Spanish Vowels	677
---	-----

TABLE OF CONTENTS

G. H. BRECKWOLDT: Experiments in Voice Confrontation	683
Glen L. BULL: The Effects of Several Linguistic Factors on the Magnitude of Error in the Location of Extraneous Sounds Embedded in Speech	691
Conrad LaRIVIERE: Normalization Influences in the Perception of Speech	699
Herbert R. MASTHOFF: Some Physiological Interpretations of the Perception of Vowel Duration above and below the One-Period Boundary	707
John OAKESHOTT-TAYLOR: Prosodic Expectancies in Speech Perception: Implications of an Experiment on the Perception of Segmented Speech	713
James M. PICKETT: Perception of Speech Features by Persons with Hearing Impairment	721
Herbert PILCH: Auditory Phonetics	737
Irwin RONSON: The Effect of Labov's Five Phonological Variables on Perceived Listener Judgement . . .	743
Willy SERNICLAES and Pierre BEJSTER: Cross-Language Differences in the Perceptual Use of Voicing Cues .	755
Willy SERNICLAES and Max WAJSKOP: Prevoicing as a Perceptual Cue in French	765
Debra M. VAN ORT, Daniel S. BEASLEY, and Linda L. RIENSCHE: Intelligibility of Time-Altered Sentential Messages as a Function of Contralateral Masking	775
Michel VIEL: The Perception of Distinctive Features	787

I. SPEECH AND SPEAKER RECOGNITION

R. D. GLAVE: Some Steps in Performance Evaluation of the Dawid Speech Recognition System	803
Kathleen HOULIHAN: The Effect of Disguise on Speaker Identification from Sound Spectrograms	811
Charles C. JOHNSON, Jr.: Speaker Identification by Means of Temporal Parameters: Preliminary data . .	821

TABLE OF CONTENTS

Wojciech MAJEWSKI, Janusz ZALEWSKI, and Harry HOLLIEN: Some Remarks on Different Speaker Identification Techniques	829
Howard B. ROTHMAN: Further Analysis of Talkers with Similar Sounding Voices	837
Donna A. TATE: Preliminary Data on Dialect in Speech Disguise	847
Oscar TOSI, R. PISANI, R. DUBES, A. JAIN: An Objective Method of Voice Identification	851
 J. THE TEACHING OF PHONETICS	
F. O. BENNETT: Phonetics and Second Language Teach- ing in Africa	865
Jacqueline L. BROWN: Teaching Beginning Phonetics in the United States: Some basic considerations	871
Raphael M. HALLER: Non-English Phone Imitation and General Academic and IPA Transcription Performance by Monolingual Adults	877
Telete Zorayda LAWRENCE: The Teaching of English Phonetics in the U.S.A.: Issues related to speech pathology and theatre	883
Audrey O'BRIEN: The Teaching of English Phonetics in the U.S.A.: Foreign dialects	891
Betty R. OWENS: Teaching Phonetics in the Voice and Diction Course	893
Sadanand SINGH and Jeffrey L. DANHAUER: The Teaching of English Phonetics in the United States	899
Rudolf WEISS: A Perception Test as a Diagnostic Tool in Teaching German Pronunciation	905
 K. CHILDREN'S SPEECH AND LANGUAGE ACQUISITION	
George D. ALLEN, Sarah HAWKINS, and Margaret R. MORRIS: Development of 'Nuclear Accent' Marking in Children's Phrases	919

TABLE OF CONTENTS

George D. ALLEN and Sarah HAWKINS: Trochaic Rhythm in Children's Speech	927
W. S. BROWN, Jr.: Supraglottal Air Pressure Variations Associated with Consonant Productions by Children	935
E. Thomas DOHERTY and Harry HOLLIEN: An Indicator of the Onset of Puberty in Males	945
Raphael M. HALLER: Some Competencies Influencing Phoneme Acquisition in Children	955
E. Charles HEALY: Timing Relationships and Strategies Used by Normal Speaking Children in the Self-Regulation of Speaking Rate	961
Jo Ann Williamson HIGGS and Barbara Williams HODSON: What the Child's Perception of the Word-Final Obstruent Cognates Tells Us about His Perceptual Mastery of English Phonology	967
Walter H. MANNING and Linda L. LOUKO: A Right Ear Effect for Auditory Feedback Control of Children's Newly-Acquired Phonemes	977
Stuart I. RITTERMAN and Ulla E. M. RICHTNÉR: An Examination of the Articulatory Acquisitions of Swedish Phonemes	985
Ida STOCKMAN, David WOODS, and Abraham TISHMAN: Observer Reliability in Making Impressionistic Judgments of Early Vocalization	997
Harris WINITZ and Betty BELLEROSE: Interference and the Persistence of Articulatory Responses	1009

L. SPECIAL ISSUES IN PHONETICS

George D. ALLEN: Transcription of the American /r/ .	1019
Uzbek BAITCHURA: Alphabets, Orthographies, and the Influence of Social-Historical Factors	1027
Simon BELASCO: Visible Speech Cues and Sandhi Variation Rules in French	1039

TABLE OF CONTENTS

Curt HAMRE and William HARN: Effects of Masking on Sub-vocal Speech and Short-Term Memory	1053
Idem: The Effects of Masking on Apraxia: Evidence from spectrographic data	1057
Antti IIVONEN: Experiments and Observations Made Using a Real-Time Spectrum Analyzer (RTA): One formant vowels and formant merger	1065
Frances INGEMANN: Speech Synthesis by Rule Using the Fove Program	1075
Anatoly LIBERMAN: On the History of Quantity in Germanic	1085
Philippe MARTIN: Automatic Location of Stressed Syllables in French	1091
Frank PARKER: Acoustic Cues and Consonant Clusters .	1095
Fernando POYATOS: Phonetic and Interdisciplinary New Perspectives in Paralinguistic Studies	1105
Mario ROSSI: Interactions between Intensity Glides and Frequency Glissandos	1117
Laurent SANTERRE: La fusion des voyelles en frontières inter-syntagmatiques et intra-syntagmatiques . . .	1131
Gladys E. SAUNDERS: Speculations on a Contact-Induced Phonological Change in Gallo-Italian	1139
James Monroe STEWART and Carol BARACH: A Short Memory Strategy with Distinctive Features	1149
Ana TATARU: The Analysis of the Combinations of Distinctive Sounds	1161
Sibylle VATER: La spectrographie et la segmentation acoustique au service de la poétique expérimentale: Des analyses fondées sur le dictionnaire de poétique et de rhétorique de Henri Morrier (éd. de 1975) . .	1171
X Areta VORONIUC: Prosodic Features and Speech Acts .	1187

* * * * *