

Journal of the International Phonetic Association



**Volume 24 Number 2
December 1994**

International Phonetic Association

Council

J. D. M. H. LAVER, Edinburgh (*President*)
A. NI CHASAIDE, Dublin (*Vice-President*)
F. NOLAN, Cambridge (*Secretary*)
P. J. ROACH, Reading (*Treasurer*)
I. MADDIESON, Los Angeles (*Editor*)

M.H. BAKALLA, Riyadh

H. BAO, Beijing

P. M. BERTINETTO, Pisa

P. BHASKARARAO, Pune

G. BRUCE, Lund

A. NI CHASAIDE, Dublin

J. C. CATFORD, Ann Arbor

W. J. HARDCASTLE, Edinburgh

S. HIKI, Tokorozawa

P. HURME, Jyväskylä

W. JASSEM, Poznań

K. J. KOHLER, Kiel

S. KODZASOV, Moscow

P. LADEFOGED, Los Angeles

B. LINDBLOM, Stockholm

M. K. C. MACMAHON, Glasgow

B. MALMBERG, Lund

A. MARTINET, Sceaux

T. M. NIKOLAEVA, Moscow

J. J. OHALA, Berkeley

P. J. ROSE, Canberra

K. N. STEVENS, Cambridge, MA

A. TRAILL, Johannesburg

E. T. ULDALL, Edinburgh

J. C. WELLS, London

K. R. M. WILLIAMSON, Port Harcourt

Secretariat: P. J. Roach, C. Foster

The subscription to the Association is £13.00 (or US\$25.00) per annum, and should be sent each January to the Secretariat, International Phonetic Association, Department of Linguistics and Phonetics, University of Leeds, Leeds LS2 9JT, U.K. or credited to Postal Giro Account No. 57 009 4208. Life membership is obtainable by paying the equivalent of fifteen years' annual subscription (£195.00 or US\$375.00). A membership application form is printed at the back of this issue of the *Journal*.

Members receive two issues of the *Journal* each year. Back issues of the *Journal* (1971-1993) may be obtained from the Secretariat at the following prices:

1971-1974:	£2.00 per volume	(to members £1.50)
1975-1976:	£3.00 per volume	(to members £2.50)
1977-1978:	£4.00 per volume	(to members £3.00)
1979-1982:	£6.00 per volume	(to members £4.50)
1983-1986:	£8.00 per volume	(to members £6.00)
1987-1991:	£20.00 per volume	(to members £10.00)
1992-:	£25.00 per volume	(to members £13.00)

Journal of the International Phonetic Association

Editor

IAN MADDIESON Phonetics Laboratory, Department of Linguistics
UCLA, 405 Hilgard Avenue
Los Angeles, CA 90024-1543, U.S.A.

Editorial Board

JARED BERNSTEIN EK-168, SRI International
Menlo Park, CA 94025-3493, U.S.A.

CAROLINE HENTON Linguistics Research Center
University of California,
Santa Cruz, CA 95064, U.S.A.

BRYAN JENNER English Department, University of West Bohemia
Sedlackova 38, 30619 Plzen, Czech Republic

JOHN KELLY Department of Language and Linguistic Science
University of York, Heslington, York YO1 5DD, U.K.

PETER LADEFOGED Phonetics Laboratory, Department of Linguistics
UCLA, 405 Hilgard Avenue
Los Angeles, CA 90024-1543, U.S.A.

PETER ROACH Department of Linguistic Science
University of Reading
Reading RG6 2AA, U.K.

Correspondence concerning this issue should be sent to:

Ian Maddieson
Phonetics Laboratory, Department of Linguistics
UCLA, 405 Hilgard Avenue
Los Angeles, CA 90024-1543, U.S.A.

Journal of the International Phonetic Association

December 1994

Vol. 24, no. 2

Contents

Articles

- DAVID DETERDING
The Intonation of Singapore English 61
- ANTTI IIVONEN
Psychoacoustical explanation for the number of major IPA vowels 73

Phonetic Representation

Illustrations of the IPA

- Hungarian (TAMÁS SZENDE) 91

Representation of Disordered Speech

- The extIPA chart (ICPLA EXECUTIVE COUNCIL) 95

Review

- CRYSTAL, DAVID. *The Cambridge Encyclopedia of the English Language*.
Reviewed by IAN MADDIESON 99

IPA News

- Publications received 102
- Announcement: Recording of the Sounds of the IPA 104

Editorial Note

The new Editor of the *Journal of the International Phonetic Association*, beginning with Volume 26 (1996), is Martin Barry of the University of Manchester. Submissions for consideration for publication may be sent to him at the following address:

Martin Barry,
Department of Linguistics,
University of Manchester,
Oxford Road,
Manchester M13 9PL, U.K.

He may also be reached by e-mail at the address:

Martin.Barry@Manchester.ac.uk

The present Editor will produce Volume 25. The delay in publication of this volume will not affect the publication schedule for Volume 26. Part 2 of Volume 25 will consist of the draft version of the new *Handbook of the I.P.A.* The present Editor will also continue to prepare the "Illustrations of the IPA" for inclusion in the eventual final publication of the *Handbook*. Submissions of further Illustrations are welcome and may be sent to:

Ian Maddieson,
Department of Linguistics,
UCLA, 405 Hilgard Avenue,
Los Angeles CA 90024-1543, USA.

(This page may be photocopied.)

Membership application
INTERNATIONAL PHONETIC ASSOCIATION

This form, when filled in, should be sent to:

Secretariat, International Phonetic Association
Dept. of Linguistics and Phonetics
University of Leeds
Leeds LS2 9JT, U.K.

The subscription to the Association is £13 (or US \$25) per annum, due each January. Payment can be made by check, by credit card using the form below, or by direct credit to U.K. Postal Giro Account No. 57 009 4208. Life membership can be obtained by paying the equivalent of fifteen years' annual subscription (£195 or US \$375).

Please enroll me as a member of the International Phonetic Association. I am enclosing the sum of as the subscription for the current year, 19 Please send me the Journal and other publications as they are issued.

Please write your name and address in BLOCK CAPITALS.

(Prof./Dr./Mr./Mrs./Miss/Ms.) Surname

Other names

Address

.....

Nationality..... Profession

University Degrees or other distinction

DateSignature

Please charge my Access / Visa / MasterCard / Eurocard (delete as appropriate) with the sum of £13 / US \$25 as the subscription for the year 19

Card No. Expiration date

Signature

Name and address as registered with credit card company:

.....

.....

.....