

May
1997

The Journal of
**Laryngology
& Otology**

Founded in 1887
by Morrell Mackenzie & Norris Wolfenden

Edited by Neil Weir

Assistant Editors
Carol Wengraf,
Richard Ramsden,
David Proops,
Valerie Lund,
Henry Grant,
Andrew Jones,
Guy Kenyon,
Michael Rothera,
Martin Bailey,
Liam Flood,
Patrick Bradley,
Nick Jones &
Iain Swan

Emeritus Advisor
in Pathology
Imrich Friedmann

Advisors in Pathology
Brian Manners,
Christopher Milroy &
Lesley Smallman

Advisor in Audiology
Linda Luxon

Advisors in Radiology
Glyn Lloyd &
Peter Phelps

Advisors in Statistics
Anthony Hughes,
Peter Kelly & Janine Gray

Production Editors
Gillian Goldfarb &
Jennifer Almond



features:

Giuseppe Gradenigo and his
contribution to Audiology

Pathogenesis of middle ear effusion
in nasopharyngeal carcinoma

Modified tragal cartilage for the
repair of nasal septal perforations

Day-case adenoidectomy: how
popular and safe in a rural
environment?

Luc's abscess - a rare complication of
middle ear infection

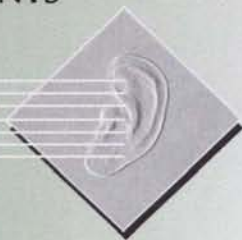
V o l

1 1 1

No 5

High Rate COMBI 40+

COCHLEAR IMPLANTS



high performance for:

TODAY

High-Rate Stimulation -

Speed of stimulation can be varied up to 18,180pps

Choice of Processing Strategies -

Continuous Interleaved Sampling (CIS) and /or High Rate Spectral Speak Extraction

Deep Electrode Insertion -

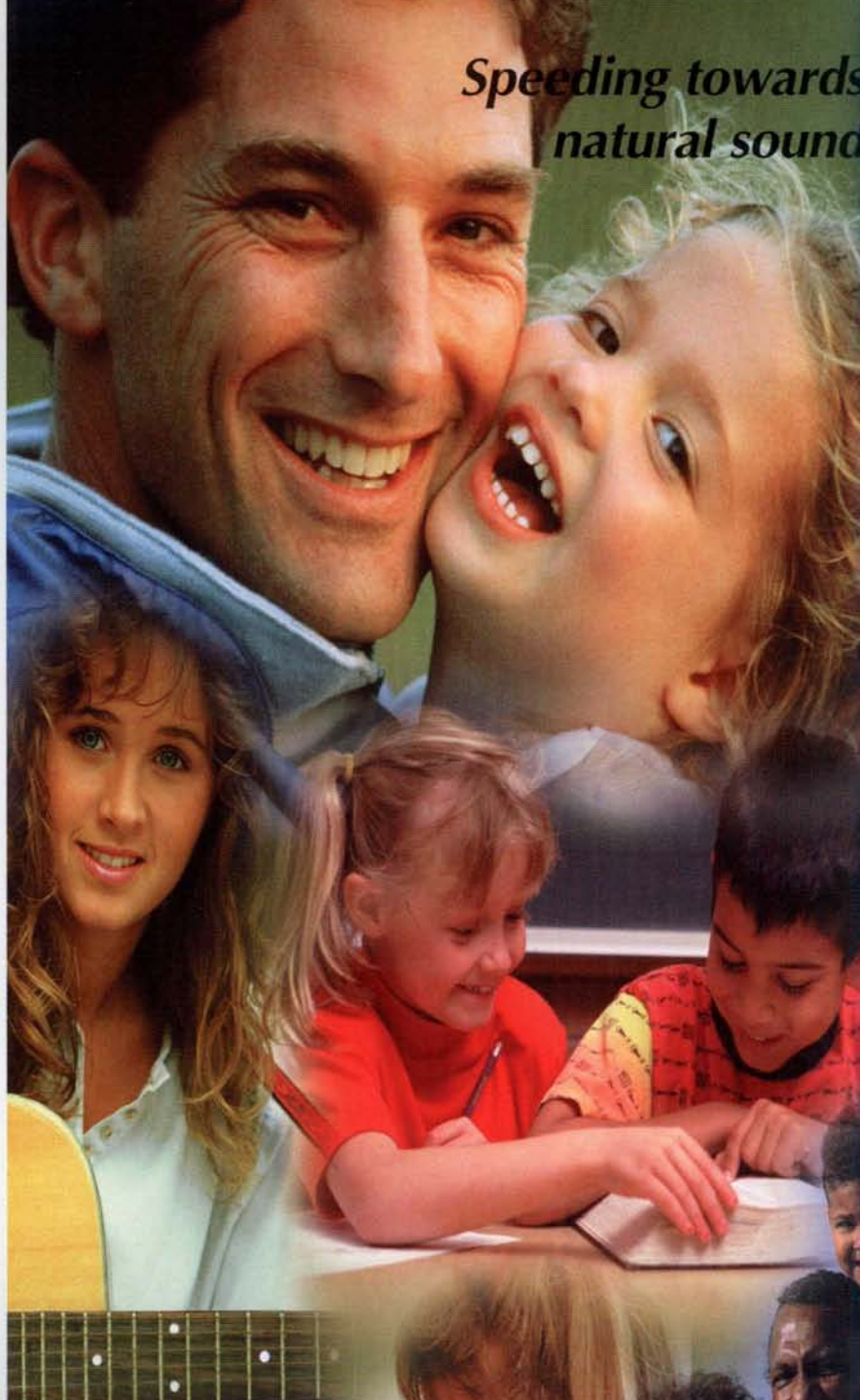
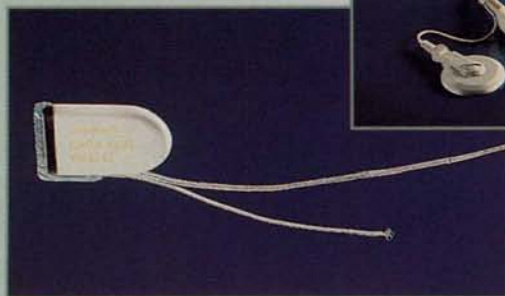
30mm depth

TOMORROW

Accepts Future Processing Strategies -

powerful and flexible design

Compatible With A Behind The Ear (BTE) Processor - currently under development



*Speeding towards
natural sound*



MED • EL

MED-EL UK Limited
Bridge Mills • Huddersfield Road • Holmfirth • HD7 2TW • UK
Tel: 014 84 / 68 62 23 • Fax: 014 84 / 68 60 56

MED-EL Headquarters
Fürstenweg 77a • A-6020 Innsbruck • Austria
Tel: +43-512 / 28 88 89 • Fax: +43-512 / 29 33 81

MED-EL Vienna
Währinger Strasse 6-8 / 4 / 17 • A-1090 Wien • Austria
Tel: +43-222 / 31 72 400 • Fax: +43-222 / 31 72 4004

MED-EL Deutschland GMBH
Truhenseeweg 2 • D-82319 Starnberg • Germany
Tel: +49-8151 / 77 030 • Fax: +49-8151 / 77 03 23

MED-EL Corporation
PO Box 14183 • Research Triangle Park • NC 27709 • USA
Tel: +1-919 / 572 2222 • Fax: +1-919 / 484 9229

MED-EL Latin America
Sarmiento 212 • Buenos Aires • Argentina
Tel: +54-1 / 3452704(05) • Fax: +54-1 / 3340166

<https://doi.org/10.1017/S0022215100137508> Published online by Cambridge University Press

<http://www.medel.com>



The Journal of Laryngology and Otology

(Founded in 1887 by MORELL MACKENZIE and NORRIS WOLFENDEN)

Edited by NEIL WEIR

Assistant Editors CAROL WENGRAF, RICHARD RAMSDEN, DAVID PROOPS, VALERIE LUND, HENRY GRANT, ANDREW JONES, GUY KENYON, MICHAEL ROTHERA, MARTIN BAILEY, LIAM FLOOD, PATRICK BRADLEY, NICK JONES & IAIN SWAN

Production Editors GILLIAN GOLDFARB & JENNIFER ALMOND

INSTRUCTIONS FOR AUTHORS

1. Original articles which have not been published elsewhere are invited and should be sent to the Editor. They are considered for publication on the understanding that they are contributed to this *Journal* solely. Reproduction elsewhere in whole or in part, is not permitted without the previous written consent of the Author and Editor and the customary acknowledgement must be made. Normally an original main article should not exceed 7500 words.

Longer articles or theses will be considered for publication as *Supplements*, at the expense of the authors or their employing authorities.

2. Manuscripts should be **typewritten in duplicate** on one side of the paper only (A4 297 x 210 mm) and double spaced, with wide margins.

Begin each component on a new page in the following sequence: title page, abstract, text, acknowledgements, references, tables and legends.

(a) **Title page**—Titles should be short with names of the authors, higher degrees only. Details of the departments in which the authors work should be put lower down. An address for correspondence should be supplied together with the author who should receive this; this will ultimately appear beneath the list of references. Any change of address should be notified. If the paper was presented at a meeting, the details of this must be given and will be inserted at the bottom of the first page of printed script.

(b) **Abstract**—This should contain not more than 150 words and include a statement of the problem, the method of study, results and conclusions; a 'summary' section should **not** be included in the main manuscript. **No paper will be accepted without an abstract.**

(c) **Key Words**—Only those appearing as Medical Subject Headings (MeSH) in the supplement to the Index Medicus may be used; where no appropriate word(s) are listed those dictated by common sense/usage should be supplied.

(d) **Text**—Suggested outline—(1) introduction, (2) materials and methods, (3) results, (4) discussion, (5) conclusion.

(e) **Tables** are adjuncts to the text and should not repeat material already presented.

(f) **Illustrations**—Two sets of illustrations, one with each copy of the manuscript, must be submitted and all authors should remember that the single column width is 80mm. One set of illustrations should, therefore, not exceed this width and they should ensure that the essential features are illustrated within this dimension.

Coloured illustrations will be charged to authors, unless a special grant is authorized by the Editor.

Written permission from the publisher must be provided to the *Journal* in order to republish material with copyright elsewhere and also from the senior author where necessary. Consent to be obtained from a patient if a photograph of their face is to be reproduced.

(g) **Measurements** must be in metric units, with *Système Internationale* (SI) equivalents given in parentheses.

(h) **References**—For *Journal* articles, The Harvard system of recording references should be used, e.g. Green, C. and Brown, D. (1951) The tonsil problem. *Journal of Laryngology and Otology* 65: 33–38. A paper written by more than two authors should be abbreviated in the text, e.g. Green *et al.* (1951), but **all** the authors should be given in the list of references. The titles of all Journals should be given without abbreviation. **References should be listed in alphabetical order**; use of the Vancouver system will **not** be accepted.

For single-author books, the following style should be used: Green, C. (1951) *The tonsil problem*, 2nd Edition. vol. 1, Headley Brothers Ltd., Ashford, Kent, pp 33–38.

For papers in multi-books with one or more editors, the reference should include the title of the chapter and the names of the editors, together with the number of the edition as e.g. Brown, D. (1951) Examination of the ear. In *Diseases of the Ear, Nose and Throat*. 2nd Edition. (White, A., Black, B., eds.), Headley Brothers Ltd., Ashford, Kent, pp 33–38.

It is most important that authors should verify personally the accuracy of every reference before submitting a paper for publication. The names of authors cited in the References should be given in alphabetical order.

(i) **Drugs**—The proper names of drugs must be used. One reference can be made to the brand name if it is felt to be important to the study.

(j) **Financial disclosures**—In the submission letter to the Editor, the authors must list all affiliations with or financial involvement in, organizations or entities with a direct financial interest in the subject matter or material of the research discussed in the manuscript.

(k) **Declaration**. Each manuscript must be accompanied by a letter of declaration to be signed by each author to confirm that they have seen, read and approve the contribution bearing their name.

(l) **Rejections**—All manuscripts which are rejected will no longer be returned to the authors. Those submitting papers should, therefore, ensure that they retain at least one copy and the reference numbers, if any, of the illustrations. The only exception to this will be those manuscripts with colour illustrations which will be returned *automatically* by Surface Mail.

(m) **Facsimile (FAX)**—All authors should send a Facsimile number whenever possible to speed communication; this particularly applies to those outside the United Kingdom. Manuscripts with no visual illustrations (X-rays/pathology) may be sent by facsimile.

3. Page proofs are sent to authors for corrections, which should be kept to a minimum; they must be clearly marked, and no extra matter added. Proofs should be returned within 5 days.

4. Orders for reprints must be sent when returning page proofs, and for this purpose special forms are supplied.

5. Editorial communications may be addressed to **The Editor, Journal of Laryngology and Otology, c/o Headley Brothers Ltd., The Invicta Press, Ashford, Kent TN24 8HH, or sent by FAX (01483 451874).**

6. **The annual subscription is £110.00 Institutions & Libraries US\$250.00; £85.00 Individuals US\$195.50; £45.00 Registrars, Residents and Interns.** (Those in training should submit a certificate from The Head of the Department giving details of their appointment; those who qualify must supply their *home* address for mailing direct). Claims to be made for missing issues within 6 months of each publication date.

7. Single copies of current or back numbers (when available) will be on sale at £12.00 each (including postage).

8. **SUPPLEMENTS** published at 'irregular' intervals with subscription, available separately on request.

9. All subscriptions, advertising and business communications should be sent to the publishers, or subscription agents.

Instructions for Occasional Articles

Review Articles. Articles of this type, preferably not exceeding 3,000 words will be considered but the author(s) are expected to be a recognized authority on the topic and have carried out work of their own in the relevant field.

Historical Articles. Articles of this type are generally encouraged, but it is obvious that they have to provide some new information or interpretation, whether it be about a well-known person or for example an instrument associated with him, but those from within a Hospital's own department who have made a hitherto less well-known contribution would be welcome.

Audit Articles. Articles should be of general audit interest—not specifically departmental. It should always be demonstrated that the 'audit cycle' has been completed.

'Silence in Court'. Articles on medicolegal topics are welcome but a preliminary letter written beforehand is requested to ensure that the contribution would be appropriate.

Short Communications. This feature will be used on an occasional basis. Examples of material suitable for inclusion under this title would be, for example, a piece of work which was of clinical interest but had failed to produce findings which were of statistical significance; where an investigative technique has been applied to an allied field, not warranting a further in-depth description of its earlier application and methodology.

Radiology in Focus. Short reports on cases in which the radiology has been crucial in the making of the diagnosis or the management of a particular case now appear on a monthly or bimonthly basis. This spot is to encourage clinicians and radiologists to produce material of particular interest in the specialty and to encourage co-operation in this field. Only presentations with first-class illustrations can be accepted and these must emphasize a problem of unusual clinical interest.

Pathology in Focus. Articles which are of pathological interest with particular emphasis on the way the diagnosis was achieved now appear on a monthly or bimonthly basis. It is hoped that clinicians will involve their pathologists in these reports, and all illustrations must be of first-class quality. Where a department, particularly those overseas, may not have such specialized facilities. It may be possible, if a block or several unstained sections are provided for our Adviser to produce or supplement the illustration submitted. Only contributions of particular pathological interest will be accepted.

Oncology in Focus. This new feature is for papers concerned with oncological treatment and investigation.

Letters to the Editor. This feature has been re-introduced to give those who wish to comment about a paper previously published within the *Journal*, an opportunity to express their views. Wherever possible, the original author is asked to add his further comment, thereby adding to the value of the contribution. Such letters should be sent as soon as possible after publication of each month's issue of the *Journal* in the hope of including them early thereafter.

'Mini-papers', such as those which appear in the *British Medical Journal*, *Lancet*, or *New England Journal of Medicine*, will not be acceptable except on the rare occasion that they bring information of immediate interest to the reader.

HEADLEY BROTHERS LTD, THE INVICTA PRESS, ASHFORD, KENT

© *Journal of Laryngology and Otology Ltd.*, 1997 ISSN 0022-2151

Periodicals Postage Paid at Rahway N.J.

Postmaster: Send address corrections to The Journal of Laryngology and Otology, c/o Mercury

Airfreight International Ltd. Inc., 2323 Randolph Avenue, Avenel, N.J. 07001. Frequency of Publication: Monthly.

Laryngology & Otology Publications

Available from the Publishers and from Agents throughout the world.

Prices include postage and packing.

The Journal of Laryngology and Otology

Edited by Neil Weir

A leading international journal, published monthly and containing original scientific articles and clinical records in all fields of Otology, Rhinology and Laryngology. Including occasional supplements. Founded in 1886.

Annual subscription for 1996 (calendar year): £100.00 Institution, £85.00 Individual, Students rate £45.00.

ISSN 0022 2151

Supplements still available separately.

The ENT Surgeon looks at the Orbit

by D. F. N. Harrison

This supplement records in some detail Professor Harrison's 'personal experience over a period of 20 years dealing with a wide variety of clinical conditions in which entry into the orbit was a desirable or essential part of treatment'.

Pp 42 Printed 1980

Retail £4.00 (US\$8.00)

20 Years Experience with Homografts in Ear Surgery

by Christian Betow

The author, a professor of Otolaryngology in West Berlin, gives a full account of his pioneering development of homograft materials in reconstructive surgery of the middle ear.

Pp 28 Printed 1982

Retail £4.00 (US\$8.00)

Experimental and Clinical Studies in Otitis Media with Effusion

by Jamsheed A. Khan

An experimental and clinical study on the effects of Carbocisteine on fluid in the middle ear.

Pp 28 Printed 1983

Retail £4.00 (US\$8.00)

Proceedings of the Sixth British Academic Conference in Otolaryngology

Edited by John Ballantyne and John Booth

Pp 134 Printed 1983

Retail £5.00 (US\$10.00)

Second International Tinnitus Seminar

Chairman: Abraham Shulman

A comprehensive study of the problems and treatment of tinnitus.

Pp 323 Printed 1984

Retail £20.00 (US\$40.00)

Forensic Audiology

by Chuang Wei Ping

A clear concise and practical guide to industrial hearing damage by a barrister/physician. This is an unusual and highly specialised aide memoire for the personal injuries practitioner, well illustrated with recent case law. A commendable enterprise by the author.

Pp 57 Printed 1986

Retail £7.00 (US\$14.00)

The Acute Orbit

Preseptal (Periorbital) cellulitis subperiosteal abscess and orbital cellulitis due to sinusitis.

by J. R. Moloney, N. J. Badham and A. McRae

Pp 18 Printed 1987

Retail £7.00 (US\$14.00)

Nasal Mast Cells: A Preliminary Report on their Ultrastructure

by A. B. Drake-Lee, F.R.C.S.

The ultrastructural morphology of mast cells in the nose and the adenoids are compared. Normal cells have a very varied morphology with electron dense granules which have scrolls occasionally. Cells from patients with perennial allergic rhinitis show variable degranulation in all areas examined. Few cells were seen in the surface epithelium. Cells from the adenoids had different degrees of degranulation which suggests that mast cell reactions are not a constant feature.

Pp 17 Printed 1987

Retail £10.00 (US\$20.00)

Surgical Anatomy of Structures Adjacent to the Thyroid Apex and Post-operative Voice Change (A Review Including Dissection)

by K. L. Yerzingatsian, F.R.C.S.

Pp 13 Printed 1987

Retail £10.00 (US\$20.00)

Inferior Meatal Anstrostomy Fundamental Considerations of Design and Function

by Valerie Joan Lund, M.S., F.R.C.S.

Pp 18 (Contains 12 x 4 colour illustrations) Printed 1988

Retail £15.00 (US\$30.00)

Surgical Management of the Discharging Mastoid Cavity

by R. P. Mills, M.Phil., F.R.C.S.

Pp 6 Printed 1988

Retail £10.00 (US\$20.00)

Acquired Subglottic Stenosis

by John M. Graham, F.R.C.S.

Pp 48 Printed 1988

Retail £12.00 (US\$24.00)

The University College Hospital/Royal National Institute for the Deaf Cochlear Implant Programme

Pp 57 Printed 1989

Retail £15.00 (US\$30.00)

Place-pitch and vowel-pitch comparisons in cochlear implant patients using the Melbourne-Nucleus cochlear implant

by Charles K. Pauka

Pp 31 Printed 1989

Retail £12.00 (US\$24.00)

The Scottish Tonsillectomy Audit

by R. L. Blair, W. S. McKerrow, N. W. Carter and A. Fenton

Pp 24 Printed August 1996

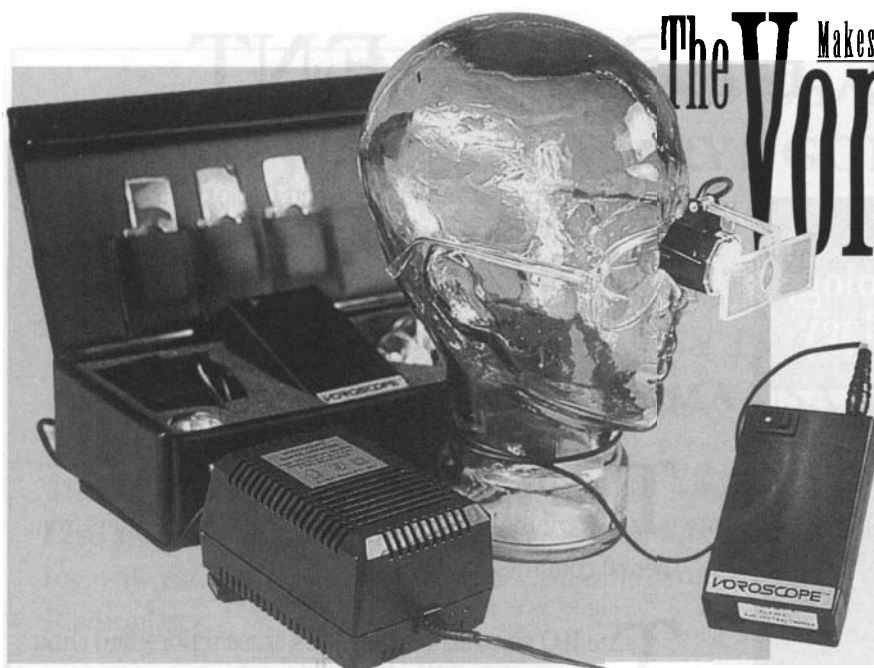
Retail £12.00 (US\$24.00)

The Birmingham Bone Anchored Hearing Aid Programme 1988-1995

Departments of Otolaryngology and Audiology, University Hospital, NHS Trust, Birmingham

Pp 52 Printed December 1996

Retail £15.00 (US\$30.00)



Makes light of those little problem areas

The Voroscope Coaxial

- ❖ Eye-Aligned Illumination of 12,000 LUX at only 85g.
- ❖ Belt Clip Battery and Complete Mobility.
- ❖ Continuous Usage Capability.
- ❖ Variable Magnification of X1.5, X1.75 and X2.25
- ❖ Eye Strain and Fatigue Relief.
- ❖ Low Cost and Convenience.
- ❖ Prescription Lenses if Required.

GARTH JESSAMINE HEALTH CARE

Unit 5, The Courtyard, Matthewsgreen Farm,
Matthewsgreen Road, Wokingham,
Berkshire, RG41 1JX

- ❖ Availability in. Either Black or White.
- ❖ Ideal for use in Theatre, Clinic, Ward Consulting Room, Emergency and Domiciliary Call

Telephone: (01734) 786916 Fax: (01734) 774064

VISIT THE JOURNAL OF LARYNGOLOGY AND OTOTOLOGY WEBSITE

INDEX

SUBSCRIPTION
INFORMATION

ELECTRONIC
CALENDAR

ABSTRACTS

GENERAL
NOTES

<http://www.jlo.co.uk>



THE SECOND US/UK JOINT OTOLARYNGOLOGY MEETING



JULY 23–26, 1997

THE WESTIN COPLEY PLACE HOTEL
BOSTON, MA USA

This joint meeting will cover a range of topics comparing the practice of otolaryngology – head and neck surgery in the United Kingdom with practice in the United States. The meeting will run alongside the Second Conjoint Symposium of Aesthetic and Reconstructive Rhinoplasty.

Applications for details of the conference and for registration should be made to:

Jenny Stubbs
Academic Department
Royal Society of Medicine
1 Wimpole Street
London W1M 8AE

Tel: +44 (0) 171 2902984 Fax: +44 (0) 171 2902989



THE SECOND US/UK
JOINT OTOLARYNGOLOGY MEETING
JULY 23–26, 1997
THE WESTIN COPLEY PLACE HOTEL
BOSTON, MA USA



CALL FOR POSTERS

Abstracts for poster presentations must be submitted on the appropriate form (obtainable from Jenny Stubbs, Academic Department, Royal Society of Medicine, 1 Wimpole Street, London W1M 8AE. Tel: +44 (0) 171 2902984, Fax: +44 (0) 171 2902989)

They should be sent to:

Richard L. Goode, MD
Division of Otolaryngology – Head and Neck Surgery
Stanford University Medical School
300 Pasteur Drive
R-135 Stanford
CA 94305, USA

Please note that Facsimile submissions will NOT be accepted.

Please also send a COPY of your completed abstract to: **Jenny Stubbs**
Academic Department
Royal Society of Medicine
1 Wimpole Street
London W1M 8AE



The Midland Institute of Otology

50th
Anniversary Year
ACADEMIC
CONFERENCE

19 – 21 SEPTEMBER 1997

THE BELFRY, WISHAW, NORTH WARWICKSHIRE

"Reconstruction in Otorhinolaryngology"
Separate sessions in Rhinology, Otology,
Head and Neck and Paediatrics

International Guest Speakers:

Professor M Urken

Professor C O'Brien

Professor G Aiach

Dr R Cotton

Professor C Cremers

plus distinguished National and Local Speakers

Partners Programme and Golf available

For details contact:

Nicola Brookes

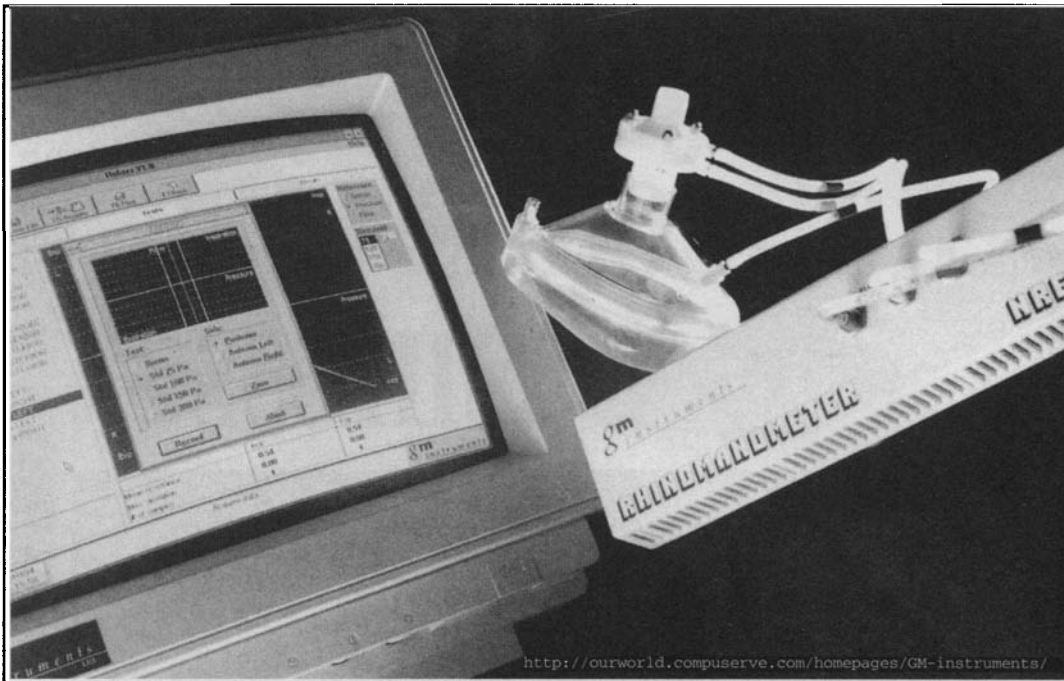
Conference Nottingham

Regent House

Clinton Avenue

Nottingham NG5 1AZ





<http://ourworld.compuServe.com/homepages/GM-instruments/>

For information on the latest developments in

- ACOUSTIC RHINOMETRY
- RHINOMANOMETRY
- CALIBRATION EQUIPMENT AND ACCESSORIES

contact **Eric Greig of G M Instruments**

Unit 6, Ashgrove Road,

Kilwinning, KA13 6PU,

Scotland, UK

tel 01294 554664

fax 01294 551154

e-mail 100522.3225@compuserve.com

gm instruments Ltd



University of Birmingham



University of Belfast



University of Cambridge



University of Dundee



University of Glasgow



University of Manchester

10th Combined British Universities Advanced Otolary Course

To be held in Birmingham from

Sunday 21 September – Friday 26 September 1997

This highly successful course will be held again at the University of Birmingham Conference Centre, Edgbaston Park Road, Birmingham.

Course Fees:

£785.00	–	COURSE FEE
£350.00	–	ACCOMMODATION
£150.00	–	DEPOSIT

This course is aimed at Consultants, Accredited Specialists, and Senior Registrars (or those in the 4th – 6th year of the Unified Training Grade). It includes lectures and seminars at high level, video presentations of surgical techniques, together with ample time for discussion. A major feature of the course is the opportunity to carry out supervised advanced surgical techniques on temporal bones in a well equipped laboratory. It is recommended both for training and an opportunity for established consultants to consolidate their skills in a relaxed academic environment.

The Faculty:

Mr D W Proops and Mr A L Pahor (Birmingham) – Course Organisers

Mr D Adams (Belfast)

Mr G Brookes (London)

Professor G G Browning (Glasgow)

Mr A Kerr (Belfast)

Mr J Robinson (Gloucester)

Mr M R Mills (Dundee)

Mr D Moffatt (Cambridge)

Professor R Ramsden (Manchester)

Mr I R C Swan (Glasgow)

Mr J Toner (Belfast)

C.M.E. Accreditation applied for – Anticipated number of credits 28

Enquiries and applications from:

Miss S J Griffiths at the Postgraduate Education Centre, City Hospital NHS Trust,
Dudley Road, Birmingham B18 7QH.

Telephone No.: 0121 507 4489/4980

Fax No.: 0121 523 4562



Brånemark System®

Not being noticed is our business...



BAHA Classic 300

THE BAHA CLASSIC 300 COMES WITH A **FIVE YEAR WARRANTY** (UK Only).

Indications for the BAHA

- **Chronic Otitis Media** – with conductive or mixed hearing loss where the use of air conduction devices is contraindicated.
- **Congenital Malformation** – of the external or middle ear where an air conduction hearing aid cannot be used or is contraindicated.
- **Otosclerosis** – in some cases.

For further information contact:

Nobel Biocare U.K. Limited, Nobel House, Grand Union Office Park

Packet Boat Lane, Uxbridge UB8 2GH, England

Tel: +44 (0)1895 430650 Fax: +44 (0)1895 430636

The difference is years of experience . . .



Nobel Biocare