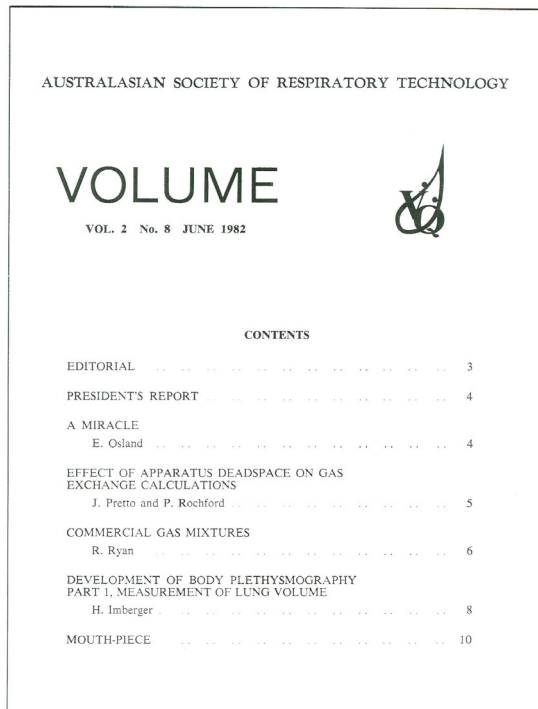


From the Archive – **VOLUME**

IN the formative years of the Society, there was a journal published under the name of Volume. David Johns and Peter Rochford were the primary force behind Volume and David and Peter have kindly provided this information about the first issue which appeared in June 1982 – 23years ago last month. Over future issues of the web-site I would like to feature details of subsequent issues of Volume. *KG*

VOLUME **The Society's First Scientific Journal**



AUSTRALASIAN SOCIETY OF RESPIRATORY TECHNOLOGY

VOLUME
VOL. 2 No. 8 JUNE 1982

CONTENTS

EDITORIAL	3
PRESIDENT'S REPORT	4
A MIRACLE E. Osland	4
EFFECT OF APPARATUS DEADSPACE ON GAS EXCHANGE CALCULATIONS J. Pretto and P. Rochford	5
COMMERCIAL GAS MIXTURES R. Ryan	6
DEVELOPMENT OF BODY PLETHYSMOGRAPHY PART I. MEASUREMENT OF LUNG VOLUME H. Imberger	8
MOUTH-PIECE	10

“Few would argue that the formation of the Australasian Society of Respiratory Technology was long overdue. This is hardly surprising as such societies seldom arise spontaneously but come into being as a result of pressures both internal and external. Pressures such as professional isolation, changing and often bewildering technology, and the desire for identity, direction and leadership are all major factors that urge individuals to unite.....”

Younger members of the Society may not be aware that during the Society's formative years and it published a scientific journal called, VOLUME over a period of five and half years (1982 – 1987). The cover of the first issue is reproduced above. The volume and issue numbers reflect the prior existence of a Society newsletter. The quotation alongside the cover is the opening words of the editorial published in that first issue.

Although an ambitious project for a fledgling scientific society, such as the ASRT was at that time, this initiative marked an important milestone in the professional development of the Society on two fronts. Firstly, in these pre 'www' and e-mail days, Volume provided a means for communication between respiratory scientists and as an alternative accessible venue (to the major journals) for publishing the results of projects and research conducted by scientists. Secondly, Volume contributed to raising the profile and establishing the scientific identity of the ASRT and its members, both within and outside our profession.

Several of the articles were reproduced in journals overseas and had a significant impact on the clinical and scientific community with a number of clinical scientists and researchers in Australasia and overseas using them to direct their own research and to change laboratory practices. We received many requests from a number of scientists and clinicians in Australasia and overseas for reprints of articles published in VOLUME and many of our older members will recall several of our guest speakers referring directly to articles/data published in VOLUME during their presentations. This is perhaps the best indicator of the professional regard people have for the work and views of members of our Society.

Details of the publication:

Journal Name: VOLUME (ISBN 0813-7072)

Publisher: Australasian Society of Respiratory Technology.

Printer: On-Time Press Pty Ltd, Thornbury, Vic (owner, Ron Tierney).

Printing Method: Typed and corrected manuscripts were delivered to the printer who set the type using an individual lead alloy block for each letter or character. The process was known as hot metal letterpress and has now been superseded. Printed galley proofs of each issue were produced and edited before the final print run.

Publication Dates and Issue Number: First issue: June 1982. Final issue: December 1987. Numbering started with Vol 2, No 8 to continue numbering used in an earlier ASRT newsletter.

Number of Issues: Published quarterly. Twenty issues appeared and one large supplement.

Distribution: The journal was posted to each recipient via Australia Post. The first two issues were distributed to all ASRT members, relevant equipment/pharmaceutical companies in Australasia and several hospital libraries (distribution about 250). Subsequent issues were distributed to about 600 healthcare professionals, including ASRT and TSANZ members, equipment/pharmaceutical companies, several overseas respiratory scientists and physicians (cost \$18.00 annually for non-members) and various libraries including the National Library (archive) in Canberra.

Reciprocal Publishing Rights: Reciprocal publishing rights were negotiated between VOLUME and several overseas respiratory groups including Breath, published in the UK by the Association of Respiratory Technologists & Physiologists.

Staff: David P. Johns (Editor), Peter D. Rochford (Sub-Editor), Jeff Pretto (Distribution Officer).

Content: Over the 5½ years of its publication, Volume featured 24 research articles, including one translated article and two extended abstracts; 23 review articles, including a large review article published as a separate supplement; 67 abstracts presented at ASMs; and a section called “Mouth-Piece” which included letters, references of interest, branch news; product news and the segment “did you know”.

Publication/Postage Costs: VOLUME was almost solely funded (publication and postage) through paid advertisements from industry and sponsorship (\$2,000 annually) from Glaxo Australia Pty Ltd (now GlaxoSmithKline). Over the life of the journal the direct cost to the Society was less than \$100.

The contents of the issues were:

JUNE 1982 2(8)

- President's Report.
- A Miracle. *E Osland.*
- Effect of Apparatus Dead Space on Gas Exchange Calculations. *J Pretto and P Rochford.*
- Commercial Gas Mixtures. *R Ryan.*
- Development of Body Plethysmography Part 1, Measurement of Lung Volume. *H. Imberger.*
- Mouth-Piece.

DECEMBER 1982 2(9)

- Instructions for Preparation of Abstracts. *DP Johns and JA Roget.*
- Volume-Pressure Relationships of Oesophageal Balloons. *A Wallace.*
- Radiographic Method for Lung Volume Measurement. *RJ Pierce.*
- Mouth-Piece.

MARCH 1983 3(1)

- Normal Lung Function Values in an Australian Adult Population. *G Hanna.*
- Exercise, Cold Air and Asthma. *R Heaton.*
- Mouth-Piece.

JUNE 1983 3(2)

- Evaluation of the KTK "Oxyquick" Apparatus. *AJ Crockett, D Schembri and G Henderson.*
- Evaluation of a Precision Gas Mixer. *DP Johns.*
- Development of Body Plethysmography Part 2, Measurement of Airway Resistance. *H Imberger.*
- Safe Handling of Gases.
- Mouth-Piece.

SEPTEMBER 1983 3(3)

- Evaluation of a Computerised Spirometry System. *J. A. Roget and C. M. Owen.*
- Monitoring of Peak Expiratory Flow Rates in Patients with Obstructive Lung Disease. *B. P. Hickey, FRACP*
- Mouth-Piece.

DECEMBER 1983 3(4)

- Instructions for Preparation of Abstracts.
- President's Report 1983.
- Domiciliary Oxygen Therapy. *N. F. Cain, FRACP, MRCP (UK).*
- Interlaboratory Variability of Pulmonary Function Tests. *M. Snow, RCPT, C. Stein, RCPT and R. Fallat, MD.*
- Abstracts of Papers Presented at the 1983 Symposium of the ASRT.
- Mouth-Piece.

MARCH 1984 4(1)

- The Wet Spirometer in 1984. *J Roget.*
- Three Devices for Administering Oxygen. *DP Johns, PE Trembath and JA Streeton.*
- The History of the Hypodermic Syringe.
- Pulmonary Hypertension-Diagnostic Aspects. *JD Horowitz.*
- Mouth-Piece.

JUNE 1984 4(2)

- In Brief: Paramagnetism and Oxygen Analysis. *PD Rochford and DP Johns.*
- Abstracts of Papers Presented at the 1984 Symposium of the

ASRT.

- Bronchodilator Effects of Salbutamol Powder Administered via Rotahaler and of Terbutaline Aerosol Administered via Misthaler. *SJ Townes, E Sharota, SJ Simpson and CM Mellis.*
- Mouth-Piece

SEPTEMBER 1984 4(3)

- Use of Cyclotron-Generated Radionuclides in Respiratory Medicine. *RKA Allen, FRACP.*
- Comparison of the Mixing and Saturation-Tension Techniques for Determination of Oxygen Haemoglobin-Dissociation Curve Position. *RG Mc Cullough, RN, CCPT, E Toyos, BS, and LG Moore, PhD.*
- Single Breath TLCO Questionnaire. *DP Johns, PD Rochford and H Imberger.*
- Mouth-Piece.

DECEMBER 1984 4(4)

- Instructions for Preparation of Abstracts.
- President's Report 1984.
- Pulmonary Capillary Blood Volume. *GE Theobald-Johnson, BSc.*
- Adult Transcutaneous Oxygen Measurement Theory and Practice. *KK Tremper, PhD, MD.*
- Mouth-Piece.

MARCH 1985 5(1)

- The Carotid Body: Structure and Function. *NA Saunders and LO Olsen.*
- Extended Abstracts:
 1. On the Effects of Aerosol Bronchodilator and the Problems of Ultrasonic Nebulisation - Its Pharmacological Potency With or Without Positive Pressure. *Yukio Goto, Jan Harada and Yoshihiro Surgiura.*
 2. Effects of Beta Stimulant Aerosol on Respiration, Circulation and Metabolism - Experimental Studies of Inhalation Techniques on Canine Asthma Models. *Jan Harada and Yukio*

Goto.

- Modified Mouth Piece for Spirometry. *DP Johns.*
- Mouth-Piece.

JUNE 1985 5(2)

- Australasian Society of Respiratory Technology Inc. Constitution.
- Abstracts of Papers Presented at the 1985 Scientific Meeting of the ASRT.
- Mouth-Piece.

SEPTEMBER 1985 5(3)

- Skin Testing. *Dr. R O'Hehir, BSc, MBBS (Hons).*
- 1986 Scientific Meeting and AGM Meeting.
- Hepatitis B: Problem and Control. *SN West.*
- Management of Chronic Obstructive Airways Disease. *PW Trembath.*

DECEMBER 1985 5(4)

- Questionnaire Based Study of Inter-Laboratory Variability of the Single Breath TLCO Test: Instrumentation, Technique, Calculation, Quality Control and Predicted Values. *DP Johns, PD Rochford and H Imberger.*
- 1986 Scientific Meeting and AGM.

MARCH 1986 6(1)

- Derivation of the Single Breath, VA, TLCO and Haemoglobin Correction Equations. *H Imberger, DP Johns and PD Rochford.*
- Institute of Biology in Australia.

JUNE 1986 6(2)

- The Safe Handling of Compressed Gas Cylinders. *SN West.*
- Abstracts of Papers Presented at the 1986 Annual Scientific Meeting of the ASRT including the President's Report.
- Mouth-Piece.

SEPTEMBER 1986 6(3)

- **Supplement:** Spirometry and Lung Volumes: A Review of Methods, Indications, Normal Values, Pitfalls, Reproducibility. *RJ Pierce, MD, FRACP.*
- Infection Control in the Respiratory Laboratory. *FA Tosolini, MB, BS, PhD, FRACP.*
- Standardization of Exercise Testing in the Asthmatic Patient: A Challenge in Itself. *SD Anderson and RE Schoeffel.*
- Mouth-Piece.

DECEMBER 1986 6(4)

- Brief History of Drugs and the Tuberculous Pulmonary Cavity. *Peter R Bull, MD, FRACP, FCCP.*
- Evaluation of Vitalograph Spirometers in Clinical Use. *Jenny T Baker and John C Tomlinson.*
- Mouth-Piece.

David P. Johns

Peter D. Rochford

JUNE 1987 7(1)

- Abstracts of Papers Presented to the Annual Scientific Meeting of the Australasian Society of Respiratory Technology Inc.

SEPTEMBER 1987 7(2)

- **Translation.** The Obstructive Diseases of the Airways. Clinical Significance and Objective Proof with Whole-Body Plethysmography. *Prof. WT Ulmer and E Reif. Translated by AE Gale, S Gale, H Imberger and W Wilde.*
- Back Extrapolation of the FEV₁. *Jeffrey J Pretto.*
- Mouth-Piece.

DECEMBER 1987 7(3)

- Pulse Oximetry in the Care of Critically Ill Patients. *K. Hambrecht.*
- Back-issues
- Mouth-Piece.