# THE ROYAL SOCIETY OF VICTORIA INCORPORATED

ABN 62 145 872 773

# ANNUAL REPORT FOR THE TWELVE MONTHS ENDING 31st DECEMBER 2008

Council has the honour to present its report to Members upon the activities of the Society during its 154th year.

PATRON Professor David de Kretser, AC, Governor of Victoria

COUNCIL

OFFICE BEARERS

Prof. G.D. Burrows, AO, KCSJ, BSc, MB, ChB, DPM, MD, FRANZCP,

FRCP sych, MRACMA, DipMHlthSc(ClinHyp), FACham, DSc

Vice-President Assoc. Prof. P.G.Thorne, BSc, PhD, DipPubPol, HonDEng(Melb), FACS
Vice-President Mr W.J.W. McAuley, BSc, MScp, KCT(Scot), KCSt.J, JP, FRGS, FAIE

Immediate Past President Assoc. Prof. B.G. Livett, BSc(Hons), PhD

Honorary Secretary Prof. T.F. Smith, AM, BSc(Hons), PhD, FTSE, FAIP, FInstPhys

Honorary Treasurer Lt. Col. R.M. Lightfoot, LLB, LLM, DipCivEng, DipElecEng,

DipMechEng, BEMining (Hons), RFD, FIEAust

Honorary Librarian Dr. L.W. Martinelli, MAgrSc, PhD (resigned April 2008)

Mr. W.B.J. Lowden (appointed August 2008)

Honorary Editor Dr. A.L. Yen, BSc(Hons), PhD

Honorary Archivist Dr. D.A. McCann, DipAppChem, DipEd, GradDipLib, MEnvSc, PhD

Honorary Research Secretary Assoc.Prof. R.L. Hughes, BE, MEngSc, PhD

Members

Dr. W.D. Birch, AM, BSc(Hons), PhD

Prof. J.St.J.S. Buckeridge, PhD, FGS(Lond), FAustImm, FIEAust (resigned October 2008)

Prof. A.P. Kershaw, BSc, MSc, PhD Adjunct Prof. J. Long, BSc(Hons), PhD

Prof. J.F. Lovering, AO, BSc(Hons)(Syd), MSc(Syd&Melb), PhD(Calif),

HonDSc(Melb&Flinders), FTSE, FAA, FRSV

Prof. M. Sandiford, PhD (resigned December 2008)

Prof. L. Selwood, MSc, PhD Prof. G.R. Shi, BSc(Hons), PhD Dr. M. Williams, BSc, Ms, PhD

Dr. J.W. Zillman, AO, BA, BSc(Hons), HonDSc(Monash), MSc, PhD, FTSE, FAIP, FAIM,

FRMetS, FIS (resigned October 2008)

Retirements

Dr. W.D. Birch, AM, BSc(Hons), PhD

Prof. J.F. Lovering, AO, BSc(Hons)(Syd), MSc(Syd&Melb), PhD(Calif),

HonDSc(Melb&Flinders), FTSE, FAA, FRSV

Dr. M. Williams, BSc, Ms, PhD

#### **TRUSTEES**

Dr. D.M. Churchill, BSc, MA, AAIM, PhD

Em. Prof. J.W. Warren, MA, PhD

The Hon. Sir Edward Woodward, KT, OBE, LLM, QC

### FELLOWS OF THE ROYAL SOCIETY OF VICTORIA

1995 David Ashton\*

Herbert H. Bolotin Phillip G. Law Dewar Goode\*

1996 Jerry Adams

Clive Coogan\* Suzanne Cory Sir Gustav Nossal Sir Arvi Parbo Graeme Pearman John Talent

1999 James Bowler

Nancy Millis

2001 Yvonne Aitken\*

Martin R. Harris Barry O. Jones John F. Lovering

2004 Thomas A. Darragh

Joyce R. Richardson

2005 Hilary J. Harrington

Murray J. Littlejohn

2008 David V. Boger

\* Deceased

## PRESIDENT'S REPORT

This has been a very busy 12 months for Council and the Society and I wish to thank the Officers of The Royal Society of Victoria, the Council, the very active committees and of course the staff who have attempted to keep the organization functioning through the times of change.

The most significant events during the past 12 months have been

- The appointment of the Audit Committee and a Review Accountant
- 2) The diligent work of the Finance Investment Committee in following up the identified problems and putting in place appropriate business and financial procedures
- 3) The resignation of Camilla van Megen, the Executive Officer for nearly two decades
- 4) The appointment of a new Executive Officer and a Project Officer

- The commencement of the external building refurbishment
- 6) Participation in the "Cruden Farm" fund-raising activity
- Council decision to dissociate from The Royal Societies of Australia due to our unhappiness with its structure and processes
- 8) The commitment to the South Magnetic Pole flyover and the Young Science Ambassadors Program, thanks to the hard work of the team in particular the financial underwriting by Lt. Col. Richard Lightfoot and his company.

### 1. Audit

The appointment of the Audit Committee and an external "Review Accountant" was strongly supported by a large majority of Councillors. An extensive investigation by the Review Accountant and the Audit

Committee for the period 1st January 2005 – 31st December 2007, established serious problems and the need to establish appropriate and robust Financial Procedures. The independent review revealed a number of serious problems including:-

- A consistent failure to properly maintain the Asset Register since 1998.
- The failure to keep track of the realisation of assets from the sale of shares in the Ralton Group Discretionary Share Portfolio.
- c. On-going failure to comply with the maintenance of records to adequately support taxation paid in GST and FBT. It appears that there has been over-claiming of GST and an understatement of the FBT liability. The Committee found that the FBT expenses were excessive and totally out of proportion to the size of the Society and its resources.
- d. Consistently failing to obtain detailed purchase orders and at least two quotations for building works and maintenance.
- e. Failure to retain adequate documentation to support the reimbursement of the Executive Officer and one of the Councillors or to demonstrate that their personal expenditure was necessary for Society business.
- f. Failure to retain adequate documentation on expenditure on special projects so that the true cost to the Society of these projects could be determined.

In summary, the Audit Committee found that the finances of the RSV have not been handled in an appropriate or professional manner and that an ongoing lack of transparency of the financial reporting had prevented the Council from identifying these problems.

# 2. Finance Investment Committee and New Operating Procedures

As a result of the Audit Committee findings the Finance and Investment Committee (FIC) was established by Council early in 2008 to institute significant changes in the way the Society manages and reports on its financial activities. The FIC further examined the details of the Society's income and expenditure in the period 2005–2007, with a view to implementing procedures to overcome the problems identified by the Review Accountant.

Since it was established by the Council, the FIC has also provided routine scrutiny and oversight of the Society's financial records to meet legal requirements under the Incorporations Act. The FIC was

greatly assisted in its work by the Administration Officer – Finance, Mr. Alex Tsakmakis, and the interim Acting Executive Officer, Dr. Robb Stanley.

The problems identified fell into a number of areas, and these were the main focus of the FIC's investigations and recommendations including the:

- a. Maintenance of adequate records to adequately support taxation paid in GST and FBT.
- Procedures for reimbursements to staff and Councillors only on appropriate documentation.
- Appropriate procedures for the financial management of building and maintenance work.
- d. Management of special projects and donations.
- Tracking and management of the Society's investments.
- f. Maintenance of the Asset Register.

Despite efforts of the FIC and the Society's lawyers, the Council request for adequate explanation and documentation for personal expenditure reimbursed by the Society to one Councillor has not been forthcoming. His refusal to co-operate with the Society and the Council is very regrettable.

We are greatly indebted to the large majority of Councillors and members who supported the reform process, as well as the current staff, previous Administration Officer – Finances and the Council appointed Review Accountant.

As President on behalf of the Council I thank the Chair of the Committee, Professor Lynne Selwood and the two retiring Councillors, Professor John Lovering and Dr. Bill Birch, who as committee members have contributed so much time, thought and effort to this reform process.

## 3. Resignation of the Executive Officer

After nearly two decades of service to The Royal Society of Victoria the Council accepted the resignation of Ms Camilla van Megen as from the middle of September 2008. I wish to acknowledge her commitment and efforts to the Society over these many years. We invited her to attend the Annual General Meeting so that we might acknowledge this contribution but she replied that she was unable to attend.

# 4. Appointment of a new Executive Officer and a Project Officer

After advertising the position and interviewing applicants a new Executive Officer was appointed and

commenced part-time employment (4 days a week) with the Society on 1<sup>st</sup> January 2009. I welcome Dr. Robb Stanley and look forward to continuing to work with him in building the Society financially and administratively.

We were also very fortunate in this year to receive a donation from the Yulgibar Foundation that permitted the appointment part-time of Mr. David Dodd as Project Officer for The Royal Society of Victoria and its Foundation. The particular focus of his efforts over the 12 months will be the South Magnetic Pole Commemorative Fly-over (January 2009), the von Neumayer Symposium (May 2009) and commemoration of the Burke and Will's Expedition.

### 5. Building Refurbishment

After long delays we have finally commenced the external building refurbishment. The building is 150 years old this year. The work will include stripping the building of its peeling paint, repairing render and cracking, re-painting, re-establishing the La Trobe Street steps and restoring the main entrance to La Trobe Street, upgrading the air-conditioning of the building. We have also completed the long overdue maintenance on the cottage, replacing flooring, heating, kitchen appliances and hot water service to bring the building up to the required standard for occupancy.

### 6. Cruden Farm

The Royal Society of Victoria along with the Sovereign Order of Saint John of Jerusalem and the Mental Health Foundation participated in the picnic at Dame Elisabeth Murdoch's Cruden Farm. This raised significant funds, a share of which came to the Society. We thank Dame Elisabeth for making her property available and supporting the event and note with pleasure her recent 100th Birthday.

# 7. Withdrawal from The Royal Societies of Australia

The Royal Society of Victoria Council withdrew from any and all involvement in The Royal Societies of Australia (RSA) as it is presently constituted. As such The Royal Society of Victoria also withdrew all representation on The Royal Societies of Australia and advised both The Royal Societies of Australia and the other state Royal Societies of this decision.

# 8. The South Magnetic Pole fly-over and the Young Science Ambassadors Program

I wish to thank and acknowledge particularly Richard Lightfoot and David Dodd (Project Officer) for their commitment to organising the South Magnetic Pole fly-over and the Young Science Ambassadors Program. It was a highly successful event for The Royal Society of Victoria. It was a truly a team effort. Thanks to the hard work of Roger Morgan, Wendy Coates, Faye Clarke, Claire Baxter, Alex Tsakmakis, Janet Jackson, James McArthur and Robb Stanley. We also acknowledge again the financial underwriting by Richard Lightfoot and his company without which we could not have proceeded.

I thank all members and Councillors for your support and efforts in 2008 and we look forward to an exciting and progressive 2009.

GRAHAM D BURROWS AO KCSJ Professor

#### 2008 ANNUAL GENERAL MEETING

The 154<sup>th</sup> Annual General Meeting was convened 8<sup>th</sup> March, 2008, prior to the Ordinary Meeting.

The Officers and Councillors elected at the Ordinary Meeting held on 13th December, 2007 were inducted for 2008.

The Annual Report and Financial Statements for 2007 were received and adopted.

Mrs. Marianne Kovassy, M.Acc, CPA, was reappointed Honorary Auditor.

### **FUNDRAISING**

The Society acknowledges the following Members for their singular generosity (post-nominals omitted): (See list on facing page)

Dr. L. R. & Mrs. J. A. Allen Mr. Peter F B Alsop Prof. J. Angus Dr. Neil Avery Dr. Lawrence Bartak Mr. Alan J. Berry Dr. W. D. Birch Dr. Alan S. Bodey Mr. Keith A. Boundy Mr. Michael G. Bourne Mr. David T. Bowd Mr. Kenneth W. Bradley Prof. Graham Burrows Dr. Noel M. Cass Mr. Jeffrey R. Chapman Mr. C. G. Clark Mr. Ken R. Clayton Dr. T. G. Corbett Mr. Leon F. Costermans Dr. Clyde E. Croft Cudmore Estate Dr. Leslie G. Dale Dr. Robert Day Mr. Jan G. de Boer Mr. Keith J. Dempster Mr. Peter M. Duncan Mr. Gregory C. Eccleston Dr. Rod J. Esdaile Mr. G. Farmer

Mr. William G. Fenner Mr. Leonard E. Fielding Mr. Robert J. Foster Dr. Donald F. Gaff Mr. Andrew D. Grummet Dr. Lucian Gruner Mr. Roy T. Hardcastle Dr. H. J. Larry Harrington Mrs. Margaret C. Harris Mr. Tony Hocking Mr. Peter W. Holbeach Mr. Henry R. Holmes Mr. Ian Jones Mr. Robert M. Joy Dr. Melinda Kemp Mr. Leon Kempler Mr. Norman P. Kennedy Dr. Arnold P. Kershaw Mr. Darold E. Klindworth Mr. Paul S. Kouris Dr. Maxwell G. Lay Mrs. Helen Lee Mr. T. Frank Lee Lew Foundation Mrs. Elizabeth R. Lightfoot Dr. Murray J. Littlejohn Dr. Bruce Livett Ms. Catherine Maddison Mr. Robb Maddison

Mr. Brian S. Malone Dr. Richard Manasseh Mr. T. M. Marshall Mr. James McConville Mr. G. T. McCrorie Mrs. Susan M. McLean Miss Nancy H. McNeill Mr. Wallace W. Mobilia Dr. Thomas Mole Ms Colleen Morris Dr. Trevor C. Morton Mr. John W. Nairn Mr. Duke W. M. Paine Mr. Frank Papa Sir Arvi H. Parbo Mr. A. George Dr. Ian J. Polmear Lady Primrose C. Potter Estate of H. R. C. Pratt Very Rev. Dr. Michael Protopopov Mr. Andrew Ray Dr. F. James Reid Mr. Harold C. Richards Mr. Martin A. Riley Mr. James N. Rowan Mr. Trevor E. Rowe Mr. Lindsay I. Royston Mr. R. B. Sandie

Mr. Graeme C. Schofield Mr. R. G. Seecamp Mr. R. G. Semmens Mr Timothy J. Sharp Mr. Allan J. Smith Mr. John W. Spencer Mr. William Bondfield Stephens Mr. Fritz A. J. Suendermann Ms. Catherine Sullivan Ms. Kristine J. Tan The Yulgibar Foundation Mr. William J. Thompson Dr. Peter G. Thorne Mr. Michael Thorne Dr. Richard Thwaites Mrs. Lyn Treadwell Mr. Alfons H. M. Vandenberg Vera Moore Foundation Dr. Ben M. Wadham Em. Prof. James W. Warren Mr. Eric K .Webb Mr Norm J. West Mrs. Voi M. Williams Mr. A. M. N. Winkelman Mr. Ian R. Young Dr. John W. Zillman

# THE ROYAL SOCIETY OF VICTORIA FOUNDATION ASSISTING THE PROMOTION AND ADVANCEMENT OF SCIENCE AND TECHNOLOGY LIMITED ACN 112 376 511

Seven board meetings were conducted during 2008. The Board comprised:
Sir Laurence Muir VRD, Acting Chairman
Prof. G.D.Burrows AO KCSJ
Mr. J.R. Evans
Lt.Col. R.M. Lightfoot
Capt. W.J.W. McAuley KCT(Scot) KCSt.J RFD JP
Mrs. C. McGlashan
Prof. T.F.Smith AM
Assoc.Prof. P.G. Thorne
Dr. J. Zillman AO (resigned September 2008)

Patrons include:

Prof. Suzanne Cory AC FAA FRS
Sir Peter Derham AC KSt.J FAIM FPIA FAICD (deceased September 2008)
Laureate Prof. Peter Doherty AC FAA FRS
Dr. Phillip Law AC CBE FANZAAS FAIP FAA FTSE FFRSV

Em.Prof. Nancy Millis AC MBE FAA FTSE Prof.Em. Sir Gustav Nossal AC CBE FAA FRS FTSE Chancellor The Hon. Dr. Barry Jones AO FAA FAHA FTSE FRSA FRSV

The Foundation is a company limited by guarantee and has the general aim of directly assisting the Society in fulfilling its charter in respect of the promotion and advancement of Science and Technology by raising and soliciting monies for the exclusive use of the Society.

F.T. SMITH Honorary Secretary

RSV – INTREPID (THE ROYAL SOCIETY OF VICTORIA'S INTERNATIONAL RESEARCH EXPEDITION POLAR INTER-DISCIPLINARY VOYAGE CONNECTING YOUTH WITH SCIENCE)

The Society was unable to raise matching funds of \$3M by 30<sup>th</sup> June, 2008 and regrettably this project was unable to proceed.

## 2008 PROGRAM

The Society continued its program of free evening lectures held on the second Thursday of each month, March to December. The lectures were of very high quality with speakers recognised as experts in their field and we are very grateful to all of the speakers.

# Lecture Series

13 March	Laureate Professor David V. Boger, FRS, Particulate Fluids Processing Centre, Department of Chemical and Biomolecular Engineering, The University of Melbourne "THE IMPACT OF RHEOLOGY ON ENVIRONMENTAL PRACTICES IN MINERALS (ENVIRONMENTAL RHEOLOGY)"
10 April	Professor Ian Simmonds, Professor of Meteorology, School of Earth Sciences, The University of Melbourne "DRAMATIC CHANGES IN LIQUID AND FROZEN WATER: CLIMATE CHANGE IN AUSTRALIA AND THE ARCTIC OCEAN"
8 May	May Professor M. Burgman, Director, Australian Centre of Excellence for Risk Analysis, School of Botany, The University of Melbourne "ELICITING EXPERT JUDGEMENTS FOR ENVIRONMENTAL RISK ANALYSIS"
12 June	Dr. T. Beer, Leader, CSIRO Marine and Atmospheric Research "NATURAL HAZARDS and the INTERNATIONAL YEAR OF PLANET EARTH"
10 July	Dr. Geoff Lacey, Departments of Civil and Environmental Engineering and School of Social and Environmental Engineering, The University of Melbourne "ECOLOGICAL HISTORY OF THE MIDDLE YARRA"
14 August	Professor Paul Zimmet, AO, FTSE, Professor Director and Head, International Diabetes Institute "GLOBALISATION, COCA-COLONISATION AND THE DIABESITY EPIDEMIC"
11 September	Professor Rachel Webster, School of Physics, The University of Melbourne "THE FIRST STARS IN THE UNIVERSE: NEW TELESCOPES SHEDDING NEW LIGHT"
9 October	Professor Michael A. Parker, Associate Director, Biota Structural Biology Laboratory, St. Vincent's Institute "IMPACT OF THE AUSTRALIAN SYNCHROTRON ON MEDICAL RESEARCH"
13 November	Dr. Ian Allison, Centre for Marine Science, University of Tasmania "THE INTERNATIONAL POLAR YEAR 2007-2008: AN ASSESSMENT OF MIDTERM PROGRESS AND SCIENCE ACHIEVEMENTS"
11 December	Professor Steven Prawer The Royal Society of Victoria 2008 Medal Lecture (Physical Sciences) Professor of Physics, Program Manager, ARC Centre of Excellence for Quantum Computer Technology, Technical Director (Experimental Research) Quantum Communications Victoria

"DIAMOND: A PHYSICIST'S BEST FRIEND"

In addition, there were a number of other activities open to members.

The Royal Society of Victoria and Geological Society of Australia Inc. (Victoria Division) A. W. Howitt Lecture The fifth lecture entitled "Lies, Damn Lies and Climate Change Sceptics: What Has Caused Recent Global Warming?" was given by Professor David J. Karoly, Professor of Meteorology and Federation Fellow, School of Earth Sciences, The University of Melbourne on 19th June.

The Royal Historical Society of Victoria and The Royal Society of Victoria lectures entitled "A Land Specially Dedicated To The Unforeseen The El Nino Droughts of 1864-69 In The Australian Colonies" was presented by Associate Professor Don Garden, Senior Fellow, Australian Centre for the Study of Science, Innovation and Society and Principal Fellow in the School of Historical Studies, The University of Melbourne on 7th August and "The Adventures of an Historian in the International Arms Trade: Writing the History of the Collins Class Submarine Project" was presented by Dr. Peter Yule, Research Fellow of the History Department, The University of Melbourne on 25th September.

#### RSV Post-Graduate Student Prizes

The six finalists for the student prizes spoke on 21st August with the prize in Biological Sciences going to Bradley Clarke for his talk on "Persistent Organic Pollutants in Australian Sewerage Sludge" and the prize in Physical Sciences going to Alisa Becker for her talk on "Engineering Novel Delivery Vehicles for DNA Therapeutics". All the talks were noted as being of very good quality.

The Society also held joint meetings with the Australian Institute of Energy Melbourne Branch.

# FELLOW OF THE ROYAL SOCIETY OF VICTORIA (FRSV) DAVID V. BOGER

David Boger was educated in the United States receiving a PhD in Chemical Engineering from the University of Illinois in 1965. In Australia he has held positions in Chemical Engineering at both Monash University and The University of Melbourne.

Currently he is Laureate Professor and Professor of Chemical Engineering at The University of Melbourne. He is immediate past Director of the Particulate Fluids Processing Centre (a Special Research Centre of the Australian Research Council), past Head of Chemical Engineering and former Deputy Director of the Advanced Mineral Products Centre. His research is in non-Newtonian fluid mechanics with interests ranging from basic polymer and particulate fluid mechanics to applications in the minerals, coal, oil, food, and polymer industries. From 1991-2002 Professor Boger was Chairman of the Trade Waste Acceptance Advisory Committee, a group which advised the City of Melbourne on industrial trade waste discharges to the trunk sewer system. He held the position of BHP Billiton Fellow from 2000-2003.

Highlights of his research include the discovery of constant viscosity elastic liquids (Boger fluids); detailed experimental investigations using such materials to define fluid elasticity effects in important flows; the linking of basic surface chemistry to the continuum properties and the processing of particulate fluids; developing novel methods for flow property measurement; and the linking of the basic research to significant industrial outcomes in the petroleum, food and minerals industries. He is well-known for exploiting rheology for waste minimisation in the minerals industry.

David Boger has received many awards which include The Prime Minister's Prize for Science in 2005, the 2002 Victoria Prize, and the Gold Medal of the British Society of Rheology. An early award was The Royal Society of Victoria Medal in 1985. In 2007 he was elected to The Royal Society.



Professor Boger receiving his FRSV presented by Assoc.Prof. Thorne following his address to the Society.

#### THE RESEARCH MEDAL FOR 2008

The 44<sup>th</sup> Award of the Society's Medal for Scientific Research (The Royal Society of Victoria Research Medal) was awarded to **Professor Steven Prawer**. The presentation to Prof. Prawer was made by Professor Burrows on 11<sup>th</sup> December, 2008.

#### STUDY GRANTS

The Post Graduate Student Prize was run this year as part of the Society's contribution to Science Week, and had three candidates, Gemma Kirwan, Bianca van Lierop and Alisa Becker competed for the Physical Prize and three, Guangquiang Geng, David Ackland and Bradley Clarke competed for the Biological Prize. No Earth Science candidates competed so the fund provided by the Archbold Estate has not yet been used.

Generous donations from Members, the E.D. Gill Memorial Fund and the RSV funded the Prizes. The awards were judged by Mr. Mark Williams, (Physics), Prof. Lynne Selwood and Dr. Mary Familari (Biology) and Prof. John Buckeridge, acted as Moderator.

The winner of the **Physical Sciences Prize** was **Alisa Becker**, who spoke on "**Engineering Novel Delivery Vehicles for DNA Therapeutics**"

The winner of the **Biological Sciences Prize** was **Bradley Clarke**, who spoke on "**Persistent Organic Pollutants in Australian Sewerage Sludge**"

Prof. Graham Burrows, the President, presented the prize of \$500.00 plus the winner's certificate to the winners and a runner-up certificate to the others at the end of the evening.

In the three years since the start of the Post Graduate Student Prize Nights, donations from Members and the E. D. Gill Award have covered the cost of the Prizes and the Society has supported the cost of the evening. This successful function can be further supported by Members if they wish to make a donation to the Post Graduate Student Prize Fund.

Lynne Selwood Councillor

#### MEMBERSHIP COMMITTEE

Prof. Lynne Selwood (Convener), Lt.Col. Richard Lightfoot, Prof. Mike Sandiford, Prof. Peter Kershaw, Prof. John Buckeridge, Mr. Mark Williams. Mr. Peter Baines and Mr. Martin Harris are co-opted members

The Society now has 691 members and 139 members in arrears. In the last few years membership has been somewhat artificially inflated by offering free membership to people who participate in symposia and present their work at Ordinary Meetings. Many do not renew membership and the cost to the Society is high so in future Speakers will be offered the opportunity to join but the joining fee of \$50.00 will be waived.

The Society hopes in the future to attract more Corporate Members and Corporate Sponsors and Members can participate in increasing these memberships by encouraging suitable candidates to apply or by contacting the Executive Officer.

Student membership is higher, largely due to the Post Graduate Student Prize nights. These nights increase student membership and some students choose to stay in the Society when they find how interesting the Ordinary Meetings can be.

Lynne Selwood
Convener of the Membership Committee

#### MEMBERSHIP 2008

Elected	69
Transfer to Life Membership	1
Transfer to Life Membership (Honoris Causa)	
Resignations	38
Deaths	4
Removals (failure to pay subscription)	45
Total Membership	819

Corporate Members
Australian Delphi User Group Inc.
Davies Collison Cave
Melbourne Grammar School
School of Philosophy (Melb) Inc.
Woodleigh School

#### VALE

The following deaths are recorded with deep sympathy

Mr. Colin T. Crotty

Sir Peter Derham, AC, KStJ

Dr. Roderick James Esdaile

Dr. Lance Finch

#### **PROCEEDINGS**

The two parts of Volume 120 were published within the 2008 calendar year, primarily due to the hard work of the Technical Editor, Dr. Elizabeth Weldon. The first issue was the Proceedings of the Archbold Symposium and a small number of hard-covered versions were printed to sell. The second issue was a regular one with submitted manuscripts.

The book "Volcanoes in Victoria" sold out and due to the popularity of this title, a reprint was approved.

ALAN YEN Honorary Editor

#### **PROCEEDINGS**

The papers included in Volume 120 (Numbers 1 and 2) are listed below.

#### NUMBER 1

ALVAREZ, FERNANDO & BRUNTON, C. HOWARD C. On the reliability of reconstructing and comparing brachiopod interiors and their morphological variations based solely on serial sections (58)

ANGIOLINI, LUCIA & LONG, SARAH L.

The ENS Collection: a systematic study of brachiopods from the Lower Permian Vøringen Member, Kapp Starostin Formation, Spitsbergen (75)

BIAKOV, ALEXANDER S.

Permian bivalves of the Family Kolymiidae Kusnezov of northeast Asia: systematics, evolution, and biostratigraphy (104)

BRANAGAN, DAVID

Captain Eugene de Hautpick – A Russian ghost in Australian mining and geological history? (118)

CAMPBELL, HAMISH J., ADAMS, CHRIS J. & MORTIMER, NICK

Exploring the Australian geological heritage of Zealandia and New Zealand (38)

CAMPI, MONICA J.

New taxa and combinations of Neil W. Archbold (27)

CISTERNA, G.A. & STERREN, A.F.

Late Carboniferous *Levipustula* Fauna in the Leoncito Formation, San Juan Province, Argentine Precordillera: biostratigraphical and palaeoclimatological implications (137)

Davey, Christopher J. & Edwards, W. Ian Crucibles from the Bronze Age of Egypt and Mesopotamia (148)

HE, WEIHONG, SHI, G.R., GAO, YONGQUN, PENG, YUANQIAO, & ZHANG, YANG

A new Early Triassic microgastropod fauna from the Zhongzhai Section, Guizhou, southwestern China (157)

HILLER, NORTON, ROBINSON, JEFFREY H. & LEE, DAPHNE E.

The micromorphic brachiopod *Argyrotheca* (Terebratulida: Megathyridoidea) in Australia and New Zealand (167)

LIEBERMAN, B.S.

Emerging syntheses between palaeobiogeography and macroevolutionary theory (51)

LONG, JOHN A. & HOLLAND, TIMOTHY A possible 'elpistostegalid' fish from the Devonian of Gondwana (184)

MARTÍNEZ CHACÓN, M. LUISA & WINKLER PRINS, COR F.

New Bashkirian (Carboniferous) brachiopods from Latores (Asturias, N Spain) (194)

PASCOE, JACK H., COOKE, RAYLENE & WHITE, JOHN G. Detection of owls, owlet nightjars and arboreal mammals in edge environments of Cape Otway, south\_western Victoria (206)

PIERSON, R.R.

Glacigene Permian sediments and associated striated pavements of Victoria – an historical review (216)

RAMSAY, WILLIAM R.H. & RAMSAY, ELIZABETH G. A case for the production of the earliest commercial hard-paste porcelains in the English-speaking world by Edward Heylyn and Thomas Frye in about 1743 (236)

SHERWOOD, J., MONDON, J. & FENTON, C. Classification and management issues of estuaries in western Victoria, Australia (257)

SHI, G.R., CHEN, Z.Q. & TONG, JIN-NAN New latest Carboniferous brachiopods from the Hexi Corridor Terrane, North China: faunal migrations and palaeogeographical implications (277)

STOKES, DAVID Foreword (1)

TABOADA, A.C.

First record of the Late Palaeozoic brachiopod *Verchojania* Abramov in Patagonia, Argentina (305)

TADDEI RUGGIERO, EMMA & RAIA, PASQUALE Ontogeny in *Terebratula* species: functional convergence and allometry but not heterochrony (320)

TALENT, JOHN A.

Passing of a polymath: Neil Wilfred Archbold (1950–2005) Professor of Palaeontology, Deakin University (2)

TALENT, JOHN A. & CAMP I, MONICA J. Bibliography of Neil W. Archbold (14)

TAZAWA, J.

A bipolar brachiopod genus *Terrakea* Booker, 1930 from the Middle Permian of the South Kitakami Belt, northeast Japan (332)

WARNE, MARK THOMAS

Comments on the identity of *Trachyleberis scabrocuneata* (Brady, 1880) and *Trachyleberis lytteltonensis* Harding and Sylvester-Bradley, 1953 (Ostracoda) from Australasian and Asian marine waters (341)

WATERHOUSE, J.B.

Golden Spikes and Black Flags – macro-invertebrate faunal zones for the Permian of east Australia (345)

WEBB, J.A. & SPENCE, E.

Glaciomarine Early Permian strata at Bacchus Marsh, central Victoria – the final phase of Late Palaeozoic glaciation in southern Australia (373)

WINKLER PRINS, COR F.

Some spiriferid brachiopods from the Permian of Timor (Indonesia) (389)

#### NUMBER 2

Boon, Paul I., Raulings, Elisa J., Roache, Michael & Morris, Kay

Vegetation changes over a four-decade period in Dowd Morass, a brackish-water wetland of the Gippsland Lakes, south-eastern Australia (403)

COUNCIL OF THE ROYAL SOCIETY OF VICTORIA Annual report for the twelve months ending 31 December 2007 (liii)

ENGLAND, MATTHEW H.

Water mass variability and change in the Southern Ocean (i)

HARRINGTON, H.J. LARRY,

Zealandia, Victoria, Tasmania, southeast Queensland, New Caledonia and the Austral Volcanic Island Arc (v)

RICH, THOMAS H. & VICKERS-RICH, PATRICIA Tunneling into permafrost for polar dinosaurs (xli)

TWIDALE, C.R. & KENLEY, P.R. A.D.N. Bain and *inselberge* (419)

Volume 121 will be published in 2009.

#### OTHER PUBLICATIONS

Spiders and Scorpions Commonly Found in Victoria by Ken L. Walker, Alan L. Yen and Graham A. Milledge.

The Yarra: A Natural Treasure by David Beardsell and Cam Beardsell.

Gemstones and Minerals of Victoria by William D. Birch and Dermot A. Henry (joint publication with the Mineralogical Society of Victoria).

Volcanoes in Victoria by William D. Birch.

Education, Antarctica, Marine Science and Australia's Future, Proceedings of the Phillip Law 80<sup>th</sup> Birthday Symposium.

The Royal Society of Victoria from Then, 1854 to Now, 1959 by R.T.M. Prescott (reprinted).

Facsimile edition of the Inaugural Addresses of the First Presidents, Mr. Justice Redmond Barry, President of The Victorian Institute for the Advancement of Science, and Captain Andrew Clarke, R.E., Surveyor General, President of The Philosophical Society.

Facsimile edition of The Transit of Venus 1874 by R.L.J. Ellery

## LIBRARY

It is noted that Dr. Laurie Martinelli served as the Society's Honorary Librarian for the greater part of the year and it was during his term that considerable acquisition and activity took place and this work is acknowledged on the Society's behalf.

The library of Past President Professor Neil Archbold was placed with the Society and deposited with the Society's Library Collection at the Deakin University – Burwood Campus. There the Archbold Collection is presently accessible for use and its cataloguing is progressively taking place. However as there is a considerable amount of foreign language material, this has to be 'sent out' for expert cataloguing, and this is not expected to be completed until late 2009.

Early in the year the opportunity arose to hastily 'acquire' the library of polar explorer, geologist and RSV Fellow, Dr. Larry Harrington by way of the Commonwealth's Taxation Deductible Gift Recipient legislation.

Vice-President Captain Bill McAuley and Executive Officer Ms Camilla van Megen travelled to central New South Wales and over several days assisted Dr. Harrington to sort through his substantial book collection. The titles chosen were considered likely to be unique to the Society's holding. The books were packed in some 35 cartons and trucked to Deakin University's Waterfront Campus at Geelong, where they have been unpacked onto shelves and await listing, cataloguing and valuation.

Due to the time constraints a list of the Harrington Collection was not made at the time of selection and this will need to be done to enable valuation. Due to the unique nature of the collection cataloguing will require specialist treatment and is not likely to commence until the latter part of 2009.

Another matter which Dr. Martinelli put in place was the drafting of a new Library Agreement for conclusion with Deakin University. This was done with the *pro bono* assistance of lawyer Mr. Logan Armstrong who, through several drafts, has reached a comprehensive document which has been recently sent to the Society's current Honorary Solicitor, Mr. Andrew Blogg of Aitken Partners, for further review. It is hoped to present this document to Deakin early in 2009.

Early in the year Council resolved to have four glass doors made for the two substantial bookcases on the northern end of the Society's Library. These doors were modelled on those of the in the Lecture Hall and were made by Mr. Alan Lugton.

Following my election as Librarian in August I visited Deakin University – Burwood Campus in the company of former RSV Honorary Librarian Mr. Basil Walby to review housing and access to the Society's Collection with Deakin's Special Collections Manager, Ms Kirsten Thornton. The Collection is

presently held in a separate locked area in Deakin's Library building. Most of the Collection is located in two 'compactus' units and that comprises monographs and runs of some 500 serials.

However the Professor Neil Archbold, Mr. Robert Foster and Dr. Phillip Law collections are on open shelving for ready access. The latter two collections have already been catalogued and are listed as part of the Society's Collection in the Deakin University's on-line catalogue.

Access to the 'Society's Room' is by appointment and user's may use the collection within that room in accord with the University's Special Collection's policy.

A report comprising 'a history' of the RSV Library and its components was generated and circulated for comment. This 'working' document has since been added to as information comes to hand.

The 363 serials received, on exchange for our own Proceedings, at the Society's Victoria Street Hall are presently assembled by Mrs. Janet Jackson and periodically sent to Deakin's Waterfront Campus for accessioning. I gratefully thank and commend Mrs. Jackson for this onerous task which she has done for a number of years.

It is noted that the Society still has substantial book holdings within its Hall. These mostly comprise serials, including its own *Proceedings* and *Transactions*, and that of sister Societies in Australia. The majority of the monographs are held in the bookcases in the Lecture Hall.

In November 2008, RSV Councillor Professor Lynne Selwood drew attention of the opportunity for a visit of a University of Sydney, Fisher Library staff member Ms Judy Campbell. A meeting was convened in December with former Society Librarian Dr. Joyce Richardson, Mr. David Dodd and Professor Selwood and strategic directions and valuation of the Society's remaining library were discussed.

Priority was given to the placement of the Society's own record of *Proceedings* and *Transactions* behind glass. It was noted that there were some issues of these missing, but given that several complete sets of *Proceedings* were distributed in the early 1990s it was hoped that some could be 'retrieved'.

Attention was drawn to a set of cards in the Library catalogue cabinet which appear to have been done in the 1990s in Dewey decimal order, which may represent the remainder of Society's in-house monograph holdings. This record has since been placed in author order for checking against a physical list.

The 'tidying' up of the Lecture Hall bookcases revealed an unbound copy of Georg Balthasar von Neumayer's *Results of the Meteorological Observations Taken in the Colony of Victoria 1858-64*, and two bound copies of same. The contents of one bookcase has been listed by shelf content in author order and the other case will be done early in 2009. A number of these books have been donated to the Society by their authors or have been bound by a donor.

The Society's own record has now been placed behind locked glass in the Library, with missing issues of *Proceedings* being for 1861-63 and 1914 noted from that collection. Duplicates of many issues have been similarly placed behind glass.

It is noted that The Society's substantial Library is not mentioned on its own website nor is its presence generally known or that of its large archive which, up until 1980, is held at the State Library of Victoria and appropriately catalogued.

Other remnant artefacts of early sponsored explorations are also held by the State Library and the National Herbarium. The record of Victoria's oldest weather station, located in the Society's precinct, is also available at the Bureau of Meteorology.

Council has recently approved a draft information leaflet for initial circulation to our 'partners' for approval and then for costing with a view to having it printed. This information would also then be available to place on the Society's website.

JIM LOWDEN Honorary Librarian

## THE HALL

It is pleasing to note that numerous organisations conducted over 468 meetings during the year.

# RECIPROCAL ARRANGEMENTS WITH THE KELVIN CLUB

Negotiations between the Society and The Kelvin Club resulted in The Kelvin Club providing access to its facilities to Members of the Society (at no fee except for consumables) over two years as a trial (2008-2009 inclusive). Members of The Kelvin Club will enjoy similar rights in the Society over the same period.

Members of the Society may avail themselves the opportunity of enjoying these rights simply by approaching The Kelvin Club in the usual way.

#### METEOROLOGICAL OBSERVING SITE

The Commonwealth Bureau of Meteorology continues its lease.

#### CITY OF MELBOURNE

The Council wishes to acknowledge with gratitude the continued maintenance and refurbishment of the grounds of the Society as part of The City of Melbourne's open space system.

#### FINANCE AND INVESTMENTS COMMITTEE

Prof. Lynne Selwood (Chair), Prof. Graham Burrows, Lt. Col. Richard Lightfoot, Prof. John Lovering, Dr. Bill Birch

This year has seen significant changes in the way the Society manages and reports on its financial activities. This has been brought about through the work of the Finance and Investments Committee (FIC), established by Council early in 2008 to implement new financial procedures recommended in a report prepared by an external Review Accountant, acting under the auspices of an Audit Committee.

The FIC has conducted a detailed investigation of the Society's income and expenditure in the period 2005–2007, with a view to solving the problems identified by the Review Accountant, as well as providing routine scrutiny of the Society's financial records to meet legal requirements under the Incorporations Act.

The FIC has been greatly assisted in its work by the Administration Officer – Finance, Mr. Alex Tsakmakis, and the Acting Executive Officer, Dr. Robb Stanley, and we are very grateful for their help.

The FIC has worked to improve the financial management of the Society and eliminate the unsatisfactory financial practices identified both by the Review Accountant and subsequently during its own investigations. In particular, it has established procedures that will prevent:-

- excessive expenditure on entertainment and alcohol,
- allocation of large fringe benefits, which also increased the Society's FBT, without Council approval,
- reimbursement of significant personal expenditure by Staff or Councillors without Council approval,

- significant deficiencies in the procedures dealing with building works that have occurred in the
  past, where there were insufficient records to
  show what many payments were for or if work
  was even carried out,
- loss of Society assets over time, by an annual check of the Asset Register. An asset check conducted by the FIC established that furniture, paintings, rugs and other items worth nearly \$5,900 were missing, some of them purchased as recently as 2006–2007.

#### LYNNE SELWOOD

#### AUDIT COMMITTEE

Prof. Lynne Selwood (Chair), Prof. John Lovering, Prof. Fred Smith

In late 2007, in response to many requests from Councillors to have transparency in the financial statements and procedures, the Council appointed an Audit Committee to review the processes and practices of the Society with respect to the handling of its financial affairs and to appoint a Review Accountant.

The Review Accountant was asked to examine the financial affairs, systems and practices of the Society from 2005-2007, to ensure that they complied with taxation requirements, the obligations of a not for profit organization, and the audit obligation of a recipient of State, Commonwealth or private grants, donations and bequests.

To facilitate the role of the Review Accountant and implement his suggestions, the Audit Committee drew up the Financial Procedures of the Society, which was based in part on the processes and practices currently used in the Universities. The Procedures were discussed with the Executive Officer, Administration Officer – Finance, Honorary Treasurer and Review Accountant before finalizing the document.

The appointment of the Audit Committee and the Review Accountant was strongly supported by a large majority of Councilors. After extensive investigation by the Review Accountant and the Audit Committee of the financial documents for the period 1st January 2005 to 31st December 2007, the Committee found that the appointment of the Review Accountant and establishment of the Financial Procedures was both necessary and overdue. The independent Review Accountant revealed serious problems with a number of areas including:-

- Failure to properly maintain the Asset Register from 1998
- Failure to keep track of the realization of assets from the sale of shares in the Ralton Group Discretionary Share Portfolio.
- Failure to comply with the maintenance of records to adequately support taxation paid in GST and FBT. It appears that there has been over-claiming of GST and understatement of the FBT liability.
- 4. The Committee found that the FBT expenses were excessive and totally out of proportion to the size of the Society and its resources.
- Failure to obtain detailed purchase orders and at least two quotations for building works and maintenance.
- Failure to retain adequate documentation to support the reimbursement of the Executive Officer and a Councilor and to establish that the personal expenditure was necessary for Society business.
- Failure to retain adequate documentation on expenditure on special projects so that the true cost to the Society of these projects could be established.

In summary, the Audit Committee found that the Finances of the RSV have not always been handled in an appropriate and professional manner and the lack of transparency of the Financial Reports did not help Council to identify problems.

It recommended that the new Financial Procedures and Financial Reports pro forma developed by the Audit Committee be implemented immediately and rigorously enforced by the Finance and Investments Committee and the Council.

It also recommended that the Audit Committee be wound up and the Finance and Investments Committee assumes responsibility for the implementation of the Financial Procedures of the Society and any outstanding issues. The Finance and Investment Committee has already addressed most of the problem areas listed above and their report should be read to see what actions have been taken.

Prof. Lynne Selwood (Chair), Prof. John Lovering, Prof. Fred Smith

#### FINANCIAL ACCOUNTS

The Society's accounts as at 31<sup>st</sup> December 2008 have been audited and confirmed by Mrs. Kovassy, as the Society's Honorary Auditor.

#### 1. Balance Sheet

The reporting period (1st January – 31st December 2008) shows Total Members Funds increased by \$215,563 and this is reflected all the way to Net Assets. This increase though includes funds received during 2008 for work that will be completed during 2009.

Fixed Assets increased due to the costs of the upgrade in computers, replacing Cottage fixtures and fittings such as floor coverings, heating and stove, as well as the balance of payment for Dr. Law's painting to the artist.

Total Current Liabilities includes \$35,139 being funds received in error from Monash University and to be returned, balance of current liabilities being Proceedings printing, postage costs and expenses for Young Science Ambassadors program.

Shares (at market value) are quoted according to their portfolio valuation provided by Ralton Group Ltd.

This is a significant reduction of \$116,115 from the previous year and is a result of the financial turmoil thatwas experienced during the later part of 2007 and all of 2008.

## 2. Statement of Income and Expenditure

## A REVENUE

1. Donations and Grants

Grant of \$127,273 from the Federal Department of Environment, Water, Heritage and the Arts and a further donation of \$25,000 from the Vera Moore Foundation to assist with exterior building renovations.

Donation of \$61,000 from The Yulgibar Foundation to assist with the employment of a Project Officer.

Bequest from the Estate of Henry R. C. Pratt of \$30,000.

Balance from members.

All donations are gratefully received and allow the Society to continue to serve members and the advancement of science in Victoria.

- 2. A slight increase in Members Subscriptions from \$82,820 to \$86,124.
- Sales of Proceedings is considerably down on previous year. Income during 2008 included one off sales and a contribution of \$10,000 from Deakin University.
- 4. Sales of publications remained steady.

- Rental income increased by just under \$70,000 with high level of hire that continued through out the year.
- Symposia and Seminars well down as no major symposia were conducted during the year.
- Projects during the year. While RSV INTREPID had to be abandoned due to a lack of matching funding the Young Science Ambassadors program got off the ground.
- 8. Slight increase in Sundry Income.

Overall Total Revenue increased just under 70% to \$785,538. While this is commendable it includes funds received during 2008 but not yet spent. Exterior Building renovation expenditure and the balance of Young Science Ambassadors' expenses will be incurred during 2009.

#### B EXPENDITURE

- Advertising, minimal paid advertising during the year
- 2. Minimal Fundraising activities.
- 3. Insurance steady.
- 4. Office Expenditure again increased by 20% during the year. Approximately half of this increase was due to preliminary work on the Society's new website, computer software and hardware support/repairs. The balance was in stationery and printing.
- Caretaking and Property Attendance decreased.
   Expenses during 2008 included a one off cost setting up the garden.
- Repairs and Maintenance has reduced. As major renovation works are completed normal repairs should continue to be modest, consisting of preventive maintenance and unforeseen breakdowns.
- Salaries (including on costs) have increased significantly due to payout of annual leave and long service leave accruals for the Executive Officer,
   Ms Camilla van Megen who left during
   September.
- Rental costs have increased, and reflects the cost in servicing the increased rental use of the premises.
- 10. The cost of our Proceedings increased by approx 4%. Again three issues published this year, with one of the issues being a particularly large volume.
- 11. Seminar and Symposia expenses decreased in line with the reduced activity.
- 12. No significant other project activity.

13. Sundry expenses are marginally up from previous year.

An overall increase in Total Expenditure to \$444,517.00 was realized; with a recorded surplus of \$215,563.00 after abnormal building, RSV-IN-TREPID, South Magnetic Pole Flight and Young Science Ambassadors' expenses.

#### 3. Schedule of Investments

The market value of the Discretionary Share Portfolio (managed by the Ralton Group Ltd.) stands at \$169,763.00 This represents \$40,763 over the acquisition cost.

The Cash and Share Summary provides a useful picture – the total of which stands at \$824,128, an increase of \$112,084 over the reporting period.

#### 4. Observations

- As the Society's accounts have operated in the past as a cash flow budget, donations for specific projects (painting) have distorted the record of surpluses as the money has to be committed to a specific project rather than for general expenditure.
- The Society needs to establish a significant investment fund from donations so the dividend income can assist the year on year income.
- I would like to thank the staff of the Society for their assistance to me in my term as Honorary Treasurer.

RICHARD LIGHTFOOT Honorary Treasurer

#### ACKNOWLEDGMENTS

The Society's thanks and appreciation are due those people and organisations that contributed their valuable assistance during the year. Notably:

- Mr. Andrew Blogg, Honorary Solicitor
- Mr. Alistair Urquhart, Affairs of State
- Lt. Col. Richard Lightfoot, Honorary Engineer
- Dr. Elizabeth Weldon, Honorary Managing Editor
- Mrs. Marianne Kovassy, Honorary Auditor
- The Ralton Group Ltd., Honorary Financial Investment Advisors

- Mr. Alan Lugton, Caral Building Services Pty.
- Mr. David Dodd
- Mr. Roger Morgan
- Volunteer assistance with the Newsletter Ms Wendy Coates, Mr. Leon Costermans, Mrs. Barbara Day, Mr. Ian Farnsworth, Mr. Bill Fenner, Mr. Richard Franklin, Ms Maretta Frolley, Mr. Jim Lowden, Mrs. Elaine Muir and Mr. George Snelling.
- Ms Janene Blanchfield-Brown

#### **ADMINISTRATION**

Our previous Executive Officer Ms Camilla van Megen, continued to manage the Society until August 2008. Her staff, together with their duties, are listed below. Council expresses its appreciation for their dedicated and efficient work on behalf of the Society.

Ms Camilla van Megen	Executive Officer
	(resigned September 2008)
Mr. Alex Tsakmakis	Administration Officer -
	Finance (part time)
Mrs. Janet Jackson	Administration Officer -
	Secretariat (part time)
Mr. David Dodd	Project Officer (part time
	<ul> <li>appointed October</li> </ul>
	2008)
Mr. James McArthur	Functions and Property
	Manager

I thank also Dr. Robb Stanley who stepped into the breech following the resignation of Ms van Megen and assisted greatly in keeping the Society functioning over the last four months of the year at no cost to the Society.

This Report is approved by Council for presentation to Members at the Annual General Meeting to be conducted Thursday, 12<sup>th</sup> March, 2009.

GRAHAM D. BURROWS AO, KCSJ President