



**SAVE SIGHT**  
**I N S T I T U T E**  
UNIVERSITY OF SYDNEY

# Annual Report 2007

## Save Sight Institute

Foresight Australia  
Lions NSW Eye Bank

Sight for Life

# 1. The Save Sight Institute Vision and Mission



The Save Sight Institute is located on the historic site of Sydney's first hospital and shares this home with the Sydney Eye Hospital

Established on 6 May 1985, the Save Sight Institute is a not-for-profit organisation working with government and community to save sight. Its work and its vision provide a unique fusion of scientific endeavour, clinical excellence and community spirit!



## Sight for Living, Sight for Life!

### Our Vision:

**Sight for Life**  
for the whole community.

### The Mission:

**New Knowledge Creation**  
to save sight.

### Research Focus:

**Eye Disease &  
Vision Science**

ensuring that the unsolved blindness of today becomes curable and preventable tomorrow.

**Communication Technologies**

exploiting digital media to train the next generation of eye doctors; increasing community awareness and extending eye health services to remote and rural communities.

**Community Service &  
Eye Care**

developing eye health services, diagnostic tools and screening programs for prevention of eye disease.

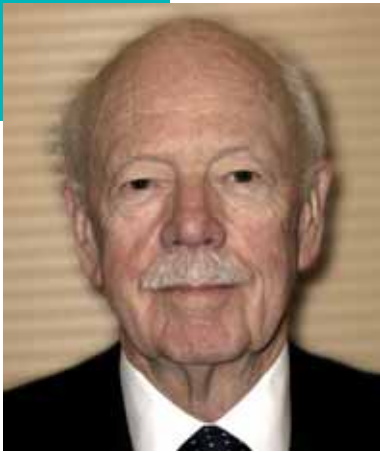
## 2. Table of Contents



New Knowledge  
Creation to  
Save Sight

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## 3. President's Report



Ken Coles

The Save Sight  
Institute...  
an internationally  
recognised eye and  
vision research  
Institute

This is a very special time to be reporting on the affairs of the Save Sight Institute. In presenting the annual accounts it is incumbent on directors to comment on any significant items that have occurred since our balance date of 31st December, 2007. The most important of the significant items is the coming to an end on 31st August, 2008, of Professor Billson's tenure, not only in the Save Sight Institute, but also in the Medical Faculty of the University of Sydney.

At the last Annual Meeting, held on the 27th August, 2007, I was re-elected to the council of the Save Sight Institute and at the first council meeting I was reelected our President. I was first elected to the Council in 1998 and elected President in 2001. This began a close association with Professor Frank Billson AO, Foundation Professor of Ophthalmology and Eye Health in the Faculty of Medicine of the University of Sydney and Director of the Save Sight Institute. For me it has been a very rewarding experience, not only with the Save Sight Institute, but also having the opportunity to renew the connection with Sydney Hospital, of which my father was Chairman from 1960-1968.

On the 12th August, 2008, a dinner was held in the Great Hall of Sydney University to celebrate 125 years of the Sydney Eye Hospital (1883-2008), 152 years of the Medical School (1856-2008) and 23 years of the Save Sight Institute (1985-2008). The Dean, Professor Bruce Robinson, welcomed guests, spoke of Professor Billson's career and role in each of these organizations and announced the award to him of the title Emeritus Professor of Ophthalmology to a pply from the 1st of September, 2008.

The following list gives an indication of the breadth and extent of Professor Billson's work.

### Milestones in the progress of the Save Sight Institute

- 1977 – Professor F.A. Billson AO appointed the Foundation Professor of Ophthalmology & Eye Health in the Faculty of Medicine of Sydney University.
- 1978 – Foresight Australia established for the prevention and cure of world blindness, particularly in Bangladesh, PNG, Cambodia and the Solomon Islands.
- 1980 – Professor Billson and Associate Professor Jan Provis receive the first grant to investigate the problem of blindness in premature babies at KGV Hospital.
- 1984 – Lions provide five years seed funding to establish the Save Sight Institute as a Foundation of Sydney University with Professor Billson as its Director.
- 1986 – With its Constitution approved by Senate, the Save Sight Institute was officially opened in its building at Albion St, Sydney, by the Governor of NSW, Sir James Rowland.
- 1994 – Basic Science course for student ophthalmologists and the Registrar's annual training symposium established by the SSI.
- 1995 – The Lion's Eye Bank brought within the purview of Clinical Ophthalmology and the Save Sight Institute with Professor Billson as its Director.
- 1996 – The Save Sight Institute hosted the International Neuro-ophthalmology meeting in Sydney.
- 1996 – Clinical trials start for macular degeneration therapy with triamcinolone.
- 1997 – The Save Sight Institute moved to the Sydney Hospital-Sydney Eye Hospital campus.
- 1997 – Four year graduate medical program commenced.

### 3. President's Report (continued)

- 1997 – Virtual computer based Clinical Ophthalmology course for student teaching.
- 1997 – Lions Eye Bank received TGA accreditation and licence.
- 1998 – Drs S Graham and A Kilstörner receive grant to develop the Accumap patented objective perimetry equipment to provide early diagnosis of glaucoma.
- 1999 – The Blue Mountains epidemiological study finds that smoking doubles the chance of cataract and quadruples the risk of age related macular degeneration.
- 2000 – KGV Hospital reports that there had been no cases of retinopathy of prematurity in babies for two years.
- 2000 – Teleophthalmology services through the internet extended to the aboriginal community of the Northern Territory.
- 2000 – Appointment of Professor John McAvoy as Director of Laboratory Research at the Save Sight Institute
- 2002 – Objectivision Pty Ltd set up to commercially develop the Accumap.
- 2002 – Foresight reports that over 100,000 pairs of recycled glasses have been sent to developing countries of SE Asia and the Pacific.
- 2003 – Research grants exceed \$1million for the first time.
- 2003 – The University's fiberoptic network extended to include the SSI Campus for video teaching in rural Australia and for scientific collaboration worldwide.
- 2003 – Professor Billson received the International Humanity Award for the Prevention of Blindness in the Asia-Pacific region from the American Academy of Ophthalmology.
- 2004 – Professor Billson delivered the Claud Worth lecture at the British Children's Eye Group Meeting, Wales, and was presented with the Claud Worth Lifetime Distinction Medal of the Institute of Child Health, London.
- 2004 – The International Congress of Eye Research World was hosted by the Save Sight Institute in Sydney for the first time.
- 2005 – Professor Billson was awarded the Jose Rizal medal, the highest award of the Asia Pacific Academy of Ophthalmology, for excellence in ophthalmology, and delivered an address to the Academy.
- 2006 – Professor Billson was Australian of the Year finalist representing NSW.
- 2006 – Professor Billson was invited to deliver the 8th SAARC Oration at the Ophthalmology Congress of SAARC countries held in Colombo, Sri Lanka, choosing as his topic The Challenge of Congenital Cataract.
- 2007 – The microsurgical training laboratory in the north wing of Sydney Hospital was completed, became operational and was used for the Registrars Conference in January 2008

On the 8th, 9th and 10th August Professor Billson, assisted by Professor John McAvoy, Dr John Grigg, Dr Alex Hunyor Jr, Ms Gisela Payne and Ms Barbara MacDougall held a very successful scientific and clinical conference at the Save Sight Institute with staff of the Institute and visitors from interstate, Europe and USA presenting papers. All the international speakers are intimately interfaced with the history of the Institute. When I spoke at the end of the dinner I said that while I did not attend all of the conference I found it fascinating. I said that I couldn't help thinking of a balance sheet. A balance sheet gives a financial snapshot of the strength or otherwise of an organization on a particular date, in Australia most often the 30th June. This conference gave us a view of the strength of eye research and clinical practice as it is, today, 12th August 2008. If one could rule it off and add it up it would be a very positive result with a triple A rating. It means that the Save Sight Institute has a bright future in working towards our mission of Sight for Life.

I conclude by congratulating Professor Billson on his achievements and wish him well in the years ahead.

Ken Coles AM  
President

## 4. Director's Report



Professor Frank Billson

The Save Sight Institute has sustained continued development and contribution to its international standing as a major Australian centre for eye research, post-graduate education and community service in Australia and overseas. This is a reflection of the leadership exemplified in the Board of the SSI, our donors, our academic and administrative staff and collaboration with staff from Prince of Wales Hospital and representation from Professor Minas Coroneo from the University of NSW. I thank the contribution of staff at all levels for their dedication and participation in research, teaching and service. The Eye Bank staff continue to perform their duties to a high standard of excellence and with a strong vocational sense. I thank Eegenda and its principals, Norman Neeson and Louise Meek, whose high quality film making skills have been with us since the opening of the SSI in 1985 and continue to punctuate our history.

### Research and Teaching

The successes of research are often measured in terms of the young people undertaking it. Three of the young researchers completed their PhD's, Trent Sandercoe PhD in Retinal Development, Michael O'Connor PhD in Cataract Laboratory Research and Stuart Graham PhD in a clinical study of the application of multifocal VEP. This last PhD arose out of research Dr Graham has been carrying out in association with Dr Sasha Klistorner, formerly an ophthalmologist in Russia and now committed to fundamental translational research. The Masters degrees by coursework and treatise included 33 students enrolled and 5 completions. The SSI clinical staff have all contributed to the revision of the Graduate Medical Programme, led initially by Dr Con Petsoglou and subsequently by Dr John Grigg.

The Institute's contribution to research is through clinical, laboratory and translational research. Clinical research is led by Dr Alexander Klistorner, Dr John Grigg, Professor Billson and Dr Max Conway. Laboratory research is led by Professor John McAvoy, Dr Roger Truscott and Associate Professor Mark Gillies. Translational research occurs through an interface between clinical and laboratory research. Clinical research is reflected in clinical trials of therapies for retinal disease and glaucoma. The interface between laboratory studies and clinical research is represented in studies of retinal development in utero which provide insights into diseases of early childhood related to retinopathy of prematurity and genetically determined problems. The genetic research reflects cross-platform research with the Children's Medical Research Institute through the collaboration of Robyn Jamieson and her staff and clinical staff of the Institute. Funding for this is supported through the Save Sight Institute.

The translational research, headed by Dr Sasha Klistorner and Dr Stuart Graham, have seen exciting advances and expansion of multifocal visual evoked response technology which takes the investigation of the function of the visual pathway and the optic nerve to a new level of sophistication, whilst the work in respect to the evaluation of the nervous site in glaucoma is well established in the Institute.

2007 saw a dramatic acceleration of research findings in respect to the early diagnosis of inflammatory disease of the optic nerve and its association with multiple sclerosis. Of this latter research we congratulate Clare Fraser for her contribution that is now enshrined in a post-graduate thesis. Clare, as part of the SSI research team, has revealed that diagnosis of multiple sclerosis can now be anticipated at an early stage – even before MRI brain imaging, because of the more detailed information given about the visual pathway and the causes of optic atrophy. Michele Madigan complements this work with her studies into diseases of the optic nerve working with the laboratories in the University of California, Los Angeles.

Cataract research looks at two aspects of the development of cataract; one led by John McAvoy and Frank Lovicu with studies of transgenic animals and molecular biology and the other led by Roger Truscott in studies of the biochemistry of aging. Both groups are now internationally recognised through research grants from the prestigious National Institute of Eye Research in Washington USA. Translational research in cataract management in association with Li Wen and John Milverton, and Tony Maloof and Suresh Pandey is paving the way to an advance in cataract surgery to correct the inability to read after middle age and to further improve surgery for congenital cataract.

## 4. Director's Report *(continued)*

Research in retinal development and retinal and choroidal malignant tumours in the eye continues to be developed through Dr Michele Madigan and Associate Professor Jan Provis. Dr Max Conway has added a further dimension of expertise in this area on his return from experience in research in the University of California, San Francisco and also in Erlangen, Germany, Department of Ophthalmology. Mark Gillies' clinical research and clinical trials in retinal vascular disease including diabetes and developmentally determined vascular disorders of the retina has now extended into an international collaboration involving American and European scientists.

Associate Professor Kathy McClellan working with Dr Constantinos Patsoglou and their research student continue to yield interesting results from their corneal research. Their work through specific techniques identifying DNA in corneas without manifest disease raises the possibility of the role of herpes simplex virus as a cause of corneal graft failure.



Mrs Marno Parsons, Gold Member and generous benefactor

This will be my last report as Director of the Save Sight Institute as it is my intention to step down from the University in 2008, the CXXV celebration year of Sydney Eye Hospital. What has been achieved could only be achieved through the support of the community and generous donors like Mrs Marno Parsons, one of the most generous donors in the history of the Save Sight Institute. This has seen the Sydney Eye Hospital and its research arm the Save Sight Institute both emerge as a Centre of Excellence in service, research and scholarship. These Institutions of the University of Sydney complement the excellent research in Public Health Ophthalmology led by Professor Paul Mitchell at Westmead Hospital.

I pay tribute to the leadership of the SESIAHS, to Professor Debora Picone as CEO, her successor Terry Clout and their administration; to Andrew Bernard, supported by Elizabeth Koff and Ian Rewell; to the leadership of the Sydney Eye Hospital through Dr Pauline Rumma, Dr Justin Playfair and staff; the Board of the SSI and our President Mr Ken Coles AM. The Board includes a member of a respected legal firm, 3 PDGs of Lions Clubs NSW ACT, a distinguished academic with experience in business leadership, a director of a company in Information Communication Technology and a past Chairman of a University Senate Finance Committee, 2 members familiar with research, scholarship, service and management in the Institute together with ex officio membership from senior University administration. This Board has governance of Institute activities and the donations for research from the community.

Thank you to so many who go beyond your job descriptions to contribute to the activities of the Institute and make it a welcoming environment to work in. The Annual Report is just one aspect of this and I thank those who put it together, in particular Diana van Driel, who helps achieve sustained high quality no matter how challenging the mission or time-frame.

Everybody in their own way makes a special contribution, including the volunteers. Thank you to the Friends of Sydney Hospital (FOSH) team and all our donors I thank Gisela Payne and Barbara MacDougall for contributing to the human face of the Institute and assisting the Registrar Training Programme, in particular the symposia and the Annual Conference. Thank you to the Sydney Eye Hospital Foundation and to the Sydney Medical Foundation. Your contribution will live on to ensure the future of Sydney Eye Hospital and the Save Sight Institute, with its vision of Sight for Life.

Frank Billson AO  
Director

## 5. Save Sight Institute Staff

### Patron

**Her Excellency Professor Marie Bashir** AC, CVO  
Governor of New South Wales

### Members of Council

**Dr Ken Coles** AM, BE, DUniv, FIEAust, CPEng  
President

**Professor Frank Billson** AO, FRANZCO, FRACS  
Director

**Professor Ramzi Fayed**  
**Mr George Harris**  
**Mr Max Holmes\*** (from 2008)  
**Mr Syd Hyett\*** (to 2007)  
**Mr Peter Ketley**  
**Mr Jean-Claude Legrand\***  
**Professor John McAvoy**  
**Mr Ben Meek**  
**Mr Kerry Williams\***

\*Lions Members

### Ex Officio Members

as at August 2008

**Her Excellency Professor Marie Bashir** AC, CVO  
Chancellor  
**Mr Alan Cameron**  
Deputy Chancellor  
**Dr Michael Spence**  
Vice Chancellor  
**Professor Bruce Robinson**  
Dean of the Faculty of Medicine

### Academic Staff

**Professor Frank Billson** AO, FRANZCO, FRACS  
**Professor John McAvoy** BSc, PhD  
**Professor Jonathan Stone** DSc, FAA  
**Professor Roger Truscott** BSc, PhD  
**Associate Professor Mark Gillies** PhD, FRANZCO, FRACS

**Associate Professor Alexander Klistorner** PhD  
**Associate Professor Frank Lovicu** BSc, PhD  
**Associate Professor Kathy McClellan** PhD, FRANZCO, FRACS  
**Dr Max Conway** PhD, FRANZCO, FRACS (NHMRC Neil Hamilton Fairley Fellow)  
**Dr John Grigg** PhD, FRANZCO, FRACS  
Senior Lecturer  
**Dr Michele Madigan** BOptom, PhD  
Research Fellow  
**Dr Con Petsoglou** MMed(ClinEpid), FRANZCO, FRACS  
Clinical Lecturer  
**Dr I-Van Ho** PhD  
Senior Lecturer

### Clinicians with Academic Appointments to University of Sydney, Discipline of Ophthalmology

**Clinical Associate Professor Philip Clifton-Bligh**  
**Dr Andrew Chang**  
**Dr Iain Dunlop**  
**Dr Rhaf Ghabrial**  
**Dr Michael Giblin**  
**Associate Professor Ivan Goldberg**  
**Dr Stuart Graham**  
**Dr Paul Healey**  
**Dr Alex P Hunyor**  
**Dr Gagan Khannah**  
**Dr Yong Li**  
**Dr John Males**  
**Dr Anthony Maloof**

**Dr Weng Sehu**  
**Dr Gerard Sutton**  
**Dr Simon Taylor**  
**Dr Nitin Verma**  
**Dr Richard Wingate**

### Administrative & Clinical Staff

**Mr Alaa Al-Edwan** MA  
Administration Assistant  
**Ms Haipha Ali** BAppVisSc (Orthoptics)  
Orthoptist  
**Ms Grace Chan**  
Research Assistant  
**Ms Sook Chung**  
Research Assistant  
**Mr Giovanni Crasto**  
Finance Control Officer  
**Ms Estabrak Gorgess**  
Orthoptist  
**Ms Natalie Georgievska**  
Clinic Attendant  
**Mr Alistair Gillies**  
IT Support  
**Ms Amina Hammoud**  
Orthoptist  
**Mrs Jenny Hawker**  
Clinical Secretary  
**Ms Narelle Jay**  
Research Assistant  
**Mrs Widad Kammoun**  
Orthoptist  
**Ms Assya Klistorner**  
Electrophysiologist Technician  
**Mr Shiyong Li**  
Research Assistant



Some of the SSI staff in front of South Block, Sydney Hospital Campus



## 5. Save Sight Institute Staff (continued)

### **Ms Barbara MacDougall**

Clinic Manager

### **Ms Jasminka Mizdrak**

Research Assistant

### **Mr An Nguyen**

Research Assistant

### **Ms Anke Nguyen**

Research Assistant

### **Ms Gisela Payne**

Executive Assistant to the Director

### **Mr Robert Rapkins**

Research Assistant

### **Mrs Ann Studerus**

Clinical Secretary

### **Mrs Eleanor Viney**

Postgraduate Administrator

### **Ms Xinhuan Zhang**

Research Assistant

## Finance Committee

**Mr Ken Coles AM**, Chairman from 2008

**Professor Frank Billson AO**

**Mr John Davies AM**, Chairman to 2007

**Professor Ramzi Fayed**

**Professor John McAvoy**

**Mr Ben Meek**

## Foresight Australia

### Patron

**Major General Paul Cullen AC, CBE, DSO, ED, FCA (1909-2007)**

### Board Members

**Professor Frank Billson AO**

FRANZCO, FRACS

Chairman

**Mr Kevin Gardner**

Treasurer

**Dr Maureen Gleeson BHA, MHA, PhD**

**Mr George Harris BA, LL.M.**

**Mrs Anne Leach BA**

**Associate Professor Kathy McClellan**

PhD, FRANZCO, FRACS

**Dr Geoffrey Painter FRANZCO,**

FRACS

**Mr Muhammad Sultan**

**Dr Nitin Verma FRANZCO,**

MM(Ophth), MD(Ophth)

## Administration

**Mr Giovanni Crasto**

Honorary Accountant

**Mr Kevin Gardner**

Honorary Treasurer

**Mr Paul Pryce**

Honorary Auditor



Dr John Grigg

## Medical Advisors

**Professor Frank Billson AO,**  
FRANZCO, FRACS

**Dr John Kearney** FRANZCO, FRACS

**Dr Max Conway** PhD, FRANZCO,  
FRACS

**Dr Roger Dethlefs** FRANZCO

**Dr Kathy McClellan** PhD, FRANZCO

**Dr Neale Mulligan** FRANZCO

**Dr Geoffrey Painter** FRANZCO,  
FRACS

**Dr Gerard Sutton** MS(Oph),  
FRANZCO, FRACS

**Dr Nitin Verma** FRANZCO,

MM(Ophth), MD (Ophth)

## Foresight Volunteers

**Ms Lea Armstrong**

**Miss Doris Flood**

**Miss Mary Kane**

**Mrs Anne Leach**

**Mr Don McDonald**

**Mr Bob Morris**

**Mrs Elisabeth Thilo**

**Mr John Wilmott**

## Lions NSW Eye Bank Staff

**Professor Frank Billson AO,**  
FRANZCO, FRACS

Director

**Dr Con Petsoglou** MMed(ClinEpid),  
FRANZCO, FRACS

Deputy Director and Production  
Manager

**Associate Professor Kathy McClellan**  
PhD, FRANZCO, FRACS

Medical Advisor

**Dr Meidong Zhu** MMed, PhD  
Research Fellow

**Mr Raj Devasahayam** BAppSc  
Senior Scientist

**Mr Benedict Cooper**

Transplant Coordinator

**Mr Pierre Georges** MSc(Med)

Transplant Coordinator

**Ms Helen McKeon** BSc

Transplant Coordinator

**Mr Robert MacDonald** BA CogSci

Transplant Coordinator

**Ms Kellie-Anne Thomas**

Transplant Coordinator

## Registrars and Visiting Fellows

**Dr Matt Ball**

**Dr Martina Bösch**

Visiting Fellow

**Dr Caroline Catt**

**Dr Dov Hersch**

**Dr Son Hunyh**

## 5. Save Sight Institute Staff (continued)



Professor Roger Truscott

**Dr Mitchell Lawlor**  
**Dr Shanel Sharma**  
**Dr Nishantha Wijesinghe**  
Visiting Fellow

### Research

**Professor Frank Billson** AO,  
FRANZCO, FRACS, FACS  
Director  
**Professor John McAvoy** BSc, PhD  
Director Experimental Laboratory  
Research  
**Professor Jonathan Stone** DSc, FAA  
**Professor Roger Truscott** BSc, PhD  
**Associate Professor Mark Gillies** PhD,  
FRANZCO, FRACS  
**Assoc Professor Alexander**  
**Klistorner** BMed, PhD  
**Associate Professor Frank Lovicu**  
BSc, PhD  
**Associate Professor Kathy McClellan**  
PhD, FRANZCO, FRACS  
**Dr Christine Aroney**  
Clinical Research Coordinator  
**Dr Max Conway** PhD, FRANZCO,  
FRACS (NHMRC Neil Hamilton  
Fairley Fellow)

**Dr John Grigg** PhD, FRANZCO, FRACS  
**Dr I-Van Ho** PhD  
Senior Lecturer  
**Dr Robyn Jamieson** MBBS, FRACP,  
PhD  
Hon Senior Lecturer (based at CMRI)  
**Dr Maria Korsakova** MBBS  
Electrophysiologist  
**Dr Michele Madigan** BOptom, PhD  
**Dr Hemamalini Srinivasan**  
**Dr Richard Stump** BSc, PhD  
Laboratory Manager  
**Dr Meidong Zhu** MMed, PhD  
**Ms Briony Glastonbury**  
Project Manager  
**Mr Weiyong Shen**  
**Ms Rebecca Storen**  
**Mrs Diana van Driel** BSc(Hons)  
Senior Research Assistant  
**Mrs Natalie Walsh**  
**Ms Li Wen** MSc  
Research Assistant  
**Mrs Maria Williams**  
Clinical Research Officer



Dr Richard Stump

## 6. Teaching Activities

### Conferences, Seminars and Presentations

Members of the SSI and University of Sydney Discipline of Ophthalmology organised, convened and gave presentations at ophthalmic and vision science conferences, both in Australia and overseas including:

#### International

##### January

Workshop on treatment of macular oedema with triamcinolone, Chongqing City, China (Zhu)

##### February

Asia Pacific Academy of Ophthalmology Congress, Lahore, Pakistan (Billson)

Australian and New Zealand Corneal and Eye Bank Meeting, Auckland, New Zealand (Billson, Georges, Males, Thomas, Zhu)

##### March

Academia Ophthalmologica Internationalis: Ophthalmology Society of South Africa, Capetown, South Africa (Billson)

International Glaucoma Meeting, Athens, Greece (Arvind)

Macular Telangiectasia Second Annual Review Meeting, Harvard University, USA (Gillies, Len, Shen, Zhu)

##### May

Association for Research in Vision and Ophthalmology, Fort Lauderdale, USA (Billson, Cunneen, Gillies, Graham, Klistorner, Len, Lovicu, McAvoy, Newitt, Shen, Stump, Truscott)

##### June

16th Congress of the European Society of Ophthalmology, Vienna, Austria (Billson)

Indonesian Ophthalmologists Association Meeting, Jakarta, Indonesia (Billson)

##### July

International Society of Ocular Oncology, Siena, Italy (Conway, Madigan)

World Glaucoma Congress, Singapore (Graham)

##### August

International Society for Clinical Electrophysiology of Vision, Hyderabad, India (Arvind)

##### September

European Society of Cataract and Refractive Surgery Annual Meeting, Stockholm, Sweden (Males)

##### October

European Committee for Treatment and Research in Multiple Sclerosis, Prague, Czech Republic (Billson, Klistorner)

European Vision and Eye Research Meeting, Portoroz, Slovenia (Madigan, McAvoy)

##### December

Symposium on Eye Bank and Corneal Disease, Shanghai, China (Zhu)

## 6. Teaching Activities *(continued)*

### **National**

#### **February**

ARC Centre of Excellence in Vision Science Annual Retreat, Murrumarang, NSW (Stone)

#### **March**

Hunter Valley Cellular Biology Meeting, Hunter Valley, NSW (McAvoy)

#### **April**

Workshop on Eye and Tissue Donation, Adelaide, SA (Billson)

#### **June**

Australian Society of Cataract and Refractive Surgery Meeting, Kingscliff, NSW (Males)

Bosch Institute Annual Scientific Meeting, Sydney, NSW (Lovicu, McAvoy)

#### **September**

ComBio Meeting, Sydney, NSW (McAvoy)

Dementia CRC Conference, Sydney, NSW (Stone)

#### **October**

Garvan Signalling Symposium, Sydney, NSW (Lovicu, McAvoy)

#### **November**

Australian Ophthalmic and Visual Sciences Meeting, Canberra, ACT (Li, Shen, Zhu)

RANZCO Annual Conference, Perth, WA (Ali, Conway, Gillies, MacDougall, Males)

#### **December**

Australasian Ophthalmic and Vision Sciences Meeting, Canberra, ACT (Billson, Grigg, Jamieson, Lai, Li, Lovicu, Madigan, McAvoy, McClellan, Petsoglou, Romo, Shen, Stone, Truscott, Wang, Wen, Zhang, Zhu)

Bosch Institute Young Investigators Symposium, Sydney, NSW (Lovicu, McAvoy)

Royal Australian Chemical Institute 28th Annual Symposium, Sydney, NSW (Mizdrak)

Sixth Australian Conference on the Kynurenine pathway – tryptophan metabolism, Sydney, NSW (Mizdrak)

## 6. Teaching Activities (continued)

### Postgraduate Students in 2007

#### Students enrolled for PhD

**Allende, Alexandra** - Regulation of choroidal blood vessel growth during development and ageing of macula

**Supervisors:** Prof J Provis, Prof P McCluskey

**Balachandran, Chandrashekar** - Multifocal perimetry in glaucoma

**Supervisors:** Prof FA Billson, Dr SL Graham, Dr A Klistorner

**Cherepanoff, Svetlana** - Retinal immune microenvironmental changes in age related macular degeneration

**Supervisors:** Assoc Prof MC Gillies, Dr S. Sarks

**Jay, Narelle L** - Proteomic analysis of diabetic retinopathy

**Supervisors:** Assoc Prof MC Gillies, Dr A Len

**Lawlor, Mitchell** - The sensory predominance of vision and associations with eyes: opportunities and limitations for eye banking and corneal donation in NSW

**Supervisor:** Prof FA Billson

**Martins, Alessandra A** - Investigation of spectral (blue-yellow) colour objective perimetry in normal states and the early detection of visual field defects in diseased states

**Supervisors:** Prof FA Billson, Dr S Klistorner

**Quin, Godfrey J** - The effect of laser treatment on retinal vascular leak in diabetic retinopathy

**Supervisor:** Assoc Prof MC Gillies

**Zhang, Xinyuan Zhang** - Effect of steroids on retinal dysfunction in macular oedema

**Supervisors:** Assoc Prof MC Gillies, Dr M Zhu, Dr B Bao

#### Students enrolled for Master of Science in Medicine (Research)

**Devashayam, Raj** - Long term corneal storage: implications for eye banking

**Supervisors:** Dr K McClellan, Dr C Petsoglou

**Lai, Kenneth** - Effect of UV on ocular melanoma

**Supervisors:** Dr M Madigan, Dr N Di Girolamo

#### Students enrolled for Master of Science in Medicine (Ophthalmic Science)

**Hewitt, Alexander William**

#### Students enrolled for Master of Medicine (Research)

**Chong, Colin CW** - Transforming growth factor-beta in the resolution of ocular wound healing

**Supervisors:** Prof JW McAvoy, Dr F Lovicu

#### Students enrolled for Master of Medicine (Ophthalmic Science)

Athanasiov Paul

Brew Daniel

Brown Tani

Chan Ting Pong

Cheng Sheng Hsiu

Dauber Sophia

Do Helen Hyun-Jin

Durkin Shane

Goold Lucy Alice

Gupta Aanchal

Hogden Michael

Hue John

Ip Julian Chung Yan

Jabbour James

Kearney Frances

Pakrou Nima

Pandya Vivek

Raj Robert

Roufas Athena

Schofield Clare

Shankar Hema

Sharma Abhishek

Sharma Anamika

Skalicky Simon

Swanson Catherine

Tan Teng Han

Tan Yew Liang

Tanner Melissa Jane

Wan Sue Ling

Whist Eline

Yee Yon Chan Larry

#### Students enrolled for BMedSci

Phillip Romo

Anke Nguyen

#### Students enrolled for Graduate Diploma in Medicine (Ophthalmic Science)

Amaratunge Bhagya Chathri

Bahrami Farid

Chen Jern Yee

Davies Michael John

Itonga Matikoora Marea

Warrier Sunil Kumar

## 7. Community Activities in Australia

### Lions NSW Eye Bank

The Lions NSW Eye Bank has been intimately associated with the SSI since the Institute took up residence on Macquarie Street in 1997.

The Eye Banks of Australia have been working closely together during this time. 2007 continued the cooperation between the Eye Banks of Australia and New Zealand (EBANZ) setting high standards in providing corneas for sight saving corneal transplant surgery in both countries. EBANZ seeks common standards and the promotion of eye donation and the facilitation of corneal transplantation nationally. Monthly meetings of the members of EBANZ occur with teleconference meetings aimed at addressing common eye banking issues and formalising standard eye banking procedures to mirror European and American standards.

The Therapeutic Goods Administration (TGA) has become increasingly involved in the setting of standards and auditing of Eye Banks and seeks to play a role in solid organ donation. Also given that holding of corneas for transplantation has much in common with solid organ donation, the Lions NSW Eye Bank has acquired skills relevant to all forms of holding of tissue for transplantation and this has been recognised and emphasised by the TGA.

The Lions NSW Eye Bank, as its name implies, reflects the joint enterprise between Lions Clubs of NSW, the SSI and the Department of Health in NSW through the South Eastern Sydney and Illawarra Area Health Service.

The contribution of staff in public and private hospitals, the Department of Forensic Medicine, the State Coroner's Office of NSW and members of the community all make a vital contribution.

In 2007, 456 sight saving corneal surgeries were performed as a result of the generosity of individuals and their families who agreed to the donation of eyes for corneal transplant. The decision to be a donor needs to be shared with the family. The Lions NSW Eye Bank makes every attempt to fulfil the wishes of the deceased, which may have been indicated on a driver's licence or the Australian Organ Donor Register. The Eye Bank coordinators provide ongoing educational seminars to medical/nursing staff in our hospitals, and informative talks to community members to facilitate eye donation when a family consents.

The coordinators continue to gain community trust and seek to make eye donation accessible to all people and the decision of family members as easy as possible under difficult circumstances. The positive outcome of donation is seen by many to assist in the grieving and healing process and is always handled in a very sensitive and caring manner.

Corneal blindness is the third most common cause of world blindness. People of all ages, young children to the elderly, are currently waiting in NSW for a corneal transplant. Of those on the waiting list 50% are under the age of 40. There is no upper age limit to being a donor. The Eye Bank and the SSI are engaged in various research projects, such as the implementation of organ culture, aimed to increase the availability of corneas for sight saving corneal transplantation. Some families also agree to research if the eyes are not suitable for surgery. Medical and scientific research conducted in the SSI laboratories has increased our understanding of and the development of improved therapy for blindness caused by conditions such as cataract, retinal and diabetes related eye diseases, and macular degeneration.

In conclusion, as Director of the Lions NSW Eye Bank, I acknowledge the tremendous contribution the Eye Bank staff are making to the community of NSW and join with them in thanking all those people in the community who make eye donation and corneal transplantation possible. These people make that contribution without fuss or without seeking recognition. Finally the SSI thanks the Lions Save Sight Foundation and the Lions Clubs of NSW for their continuous support. Without them hundreds of people would not benefit from the modern miracle of restoration of sight from corneal transplantation.

**Frank Billson AO**  
Director

## 8. Community Activities in World Ophthalmic Health



Portrait of General Paul Cullen  
Artist: Mathew Lynn.

Collection: National Portrait Gallery, Canberra  
Used with permission

### Foresight Australia

Foresight Australia was established in 1978 as an International Non-government Organisation in Australia, serving the developing countries in the Asia-Pacific region, through the efforts of Major General Paul Cullen and Professor Frank Billson. General Cullen was the founding president and Professor Billson is the current president

We are saddened to report the death of Major General Paul Cullen AC CBE DSO and Bar ED FCA on the 26th September 2007 at the age of 98 years. He was a distinguished army commander in World War II, serving in North Africa, Greece, Crete and, very importantly, in Papua New Guinea, where he led the counter offensive on the Kokoda Trail against the Japanese. In peacetime he gave great service to the community, was President of the Royal Blind Society and Founding President of Foresight and Austcare. For his work with refugees he was recognised by the United Nations and by the Australian National Government with the award of the AC.

Foresight is a charitable Australian international non government organization. It is committed to the elimination of avoidable blindness worldwide but particularly in the Asia Pacific region. The major burden of blindness occurs in poverty stricken countries. Alleviation of blindness empowers communities through an inexpensive technology to be able to contribute to the future of their families and their country.

Foresight was initially formed to assist Bangladesh where it played a role in establishing the Chittagong Eye Infirmary and Training Complex and the establishment of a Chair of Community Ophthalmology in the Institute of Community Ophthalmology. It had support from AusAid in the early years but later there was some scepticism as to the future of Bangladesh. Seventeen years on the Chittagong Eye Infirmary and Training Complex became self supporting. Ophthalmologists have been trained at eight base hospitals throughout Bangladesh and over one million cataract intraocular lens implantations have been performed by those trained in the program. Currently Foresight is supporting a Children's Eye Care Centre in Katchara providing paediatric services, immunisation and medicines, health education for mothers and supplementary feeding for children who are malnourished. The Centre services 16,000 children a year.

Foresight is part of a team working with the Royal Australasian College of Surgeons and, with support from AusAid, contributes through its membership to provide services to the near island nations of Australia in particular the Solomon Islands.

Foresight's presence in East Timor started just after the civil war. Dr Nitin Verma, a Director of Foresight, has led a team supported by AusAid and the Royal Australasian College of Surgeons. A number of ophthalmologists associated with the Institute have participated including Dr John Kearney, Dr Ali Martins, Dr Stephen Ong and Dr Max Conway.

Foresight's activities have been enhanced with donations and bequests, leading to the establishment of Fellowships in the region.



Professor Billson examining a baby in Bangladesh

## 8. Community Activities in World Ophthalmic Health *(continued)*



Hospital ward in Bangladesh

Foresight has added a special dimension to the activities of the SSI and the SSI's staff are included among those who are asked to visit East Timor and the near island nations.

A special problem is training and certification of training in the region. The development of an International Diploma/Masters of Ophthalmology in the SSI has provided a special opportunity to provide training for doctors in the near island nations who wish to serve their own people and remain near their families, while gaining the educational opportunity of the internet, supplemented by a two month visit to Australia for training programs.

The cost effectiveness of Foresight programs depends on staff who make tremendous contributions to the Agency so that more than 90% of all donations goes to ward projects.

This report would not be complete unless special mention is made of our volunteers who work with the Recycled Glasses Program: Mr John Wilmott, Mr Donald McDonald, Miss Doris Flood, Mrs Anne Leach, Mrs Elisabeth Thilo, Miss Mary Kane, Ms Lea Armstrong and Mr Bob Morris. These volunteers are responsible for putting a human face on the activities of Foresight Australia. Their activities are in addition to the sight saving surgery and improvement in the quality of life by improving vision and our special glasses program that attracts increasing Australian community support.

Finally, Foresight, in association with the SSI, is well placed to add a special dimension to its programs in the future. The advent of new developments in information technology and the Internet together with access and faster communication through fibre optic and satellite hold further promise of increased educational opportunity. The SSI developed a proposal for an International Masters Degree and Graduate

Diploma of Ophthalmology providing the necessary study and training for aspiring ophthalmologists in the South Pacific region as well as some countries in the Western Pacific area. The courses will be helpful in establishing local capacity in the field of ophthalmology and the prevention of blindness in the region.



Waiting patients, Bangladesh



## 9. Funded Research Projects

### Allergan

**Researcher:** Gillies M

**Title:** A six-month phase 3, multicentre, masked, randomised, sham-controlled trial in the treatment of patients with macular oedema following central retinal vein occlusion or branch retinal vein occlusion

**Funding:** 2005-2008; \$230,000 total

**Researcher:** Gillies M

**Title:** A phase IIIb, open-label, multi-centre 12 month study to evaluate the safety, tolerability and efficacy of ranibizumab (0.3 mg) in patients with subfoveal choroidal neovascularization secondary to age-related macular degeneration

**Funding:** 2007-2008; \$51,720 total

**Researcher:** Gillies M

**Title:** A 2 year, multicentre, randomized, controlled, masked, dose-finding trial to assess the safety and efficacy of multiple intravitreal injections of AGN 211745 in patients with subfoveal choroidal neovascularization secondary to age-related macular degeneration

**Funding:** 2007-2010; \$105,000 total

### Australian Research Council

**Researchers:** Truscott RJW, McAvoy JW, Aquilina A

**Title:** Understanding lens ageing: the molecular basis of presbyopia

**Funding:** 2006-2008; \$100,000 per annum

### Cooperative Research Centre, The Vision CRC

**Researchers:** McAvoy JW, Lovicu F, Stump R

**Title:** Research into prevention and treatment of presbyopia

**Funding:** 2003-2010; \$50,000 per annum

### Eli Lilly

**Researcher:** Gillies, M

**Title:** Reduction in occurrence of centre-threatening diabetic macular oedema

**Funding:** 2004-2008; \$70,000 total

### MacTel Foundation

**Researchers:** Gillies M, Zhu M

**Title:** A natural history study of macular telangiectasia (clinical study)

**Funding:** 2005-2010; \$33,536 per annum

## 9. Funded Research Projects *(continued)*

### National Health and Medical Research Council

**Researchers:** Gillies M, McAllister I, Wong T, Zhu M

**Title:** A multicentre randomised clinical trial of laser treatment plus intra vitreal triamcinolone for diabetic macular oedema

**Funding:** 2005-2008; \$140,250 per annum

**Researchers:** Gillies M, Zhu M

**Title:** Extension of a clinical trial of intravitreal triamcinolone for diabetic macular oedema

**Funding:** 2006-2008; \$54,763 per annum

**Researchers:** King NJC, Gillies MC, Provis JM, Madigan MC

**Title:** The Blood-Retinal Barrier – modelling mechanisms for maintenance, breakdown and repair

**Funding:** 2007-2009; \$126,275 per annum

**Researchers:** Lovicu FJ, McAvoy JW

**Title:** Regulation of lens cell behaviour by RTK antagonists, Sef and Sprouty

**Funding:** 2007-2009; \$102,250 per annum

**Researcher:** Truscott R

NH&MRC Senior Research Fellowship

**Funding:** 2007-2011; \$125,000 per annum

### National Institutes of Health (USA)

**Researcher:** McAvoy J

**Title:** Lens differentiation and cataract: role of FGF, RA & Wnt

**Funding:** 2002-2007; US\$100,000 per annum

**Researcher:** Truscott R

**Title:** Studies on nuclear cataract

**Funding:** 2006-2008; US\$100,000 per annum

### NSW-ACT Lions Save Sight Foundation Research Award

**Researcher:** Zhu

**Funding:** 2007-8; \$9911

### Novartis

**Researcher:** Gillies M

**Title:** A randomized, double masked, multicentre, phase I/II study of the safety of PTK787 administered in conjunction with photodynamic therapy with Visudyne to patients with predominantly classic, minimally classic or occult with no classic subfoveal choroidal neovascularization secondary to age related macular degeneration.

**Funding:** 2005-2007; \$20,000 total

## 9. Funded Research Projects *(continued)*

### **Ophthalmic Research Institute of Australia**

**Researchers:** Lovicu FJ, McAvoy JW

**Title:** Promoting maintenance of the lens epithelium: implications for controlling cataract development

**Funding:** 2007; \$43,460

### **Pharmacia**

**Researcher:** Klistorner A

**Title:** Binocular VEP in early glaucoma

**Funding:** 2007; \$50,000

### **Rebecca Cooper Foundation**

**Researchers:** Shen WY, Gillies M

**Title:** The use of a digital retinal camera to monitor vascular repair by bone marrow progenitor cells in diabetic retinopathy

**Funding:** 2007; \$20,000

### **Save Sight Corneal Stem Cell Research Grant**

**Researchers:** Zhu M, Wen L, Petsoglou C, McClellan K, Billson F

**Funding:** 2007-8; \$10,000

### **Sydney Foundation for Medical Research**

**Researcher:** Klistorner A

**Funding:** 2003-2007; \$80,000 per annum

**Researcher:** McAvoy JW

**Title:** Growth factor regulation of lens epithelial growth and differentiation: implications for understanding normal lens development and cataract

**Funding:** 2005-2010; \$251,000 per annum

### **University of Sydney, Faculty of Medicine Strategic Research Grant**

**Researcher:** Shen WY

**Title:** Regulation of bone marrow derived progenitor cells for diabetic retinopathy

**Funding:** 2007; \$49,836

### **Equipment grants**

**NHMRC:** \$47,628 towards Tecan Infinite Multiplate Reader (plus detector software)

**NSW/ACT Lions:** \$80,000 towards Syngene Gel Documentation System

**Rebecca Cooper Foundation:** \$20,000 towards equipment for proteomics-based investigations

## 10. Publications in 2007

- Arvind H, Hunyor A, McClellan K, Billson F, Grigg J, Jamieson R. Management of intraoperative tilting of the scleral-fixed intraocular lens in classical aniridia. *British Journal of Ophthalmology* 91:1247-8.
- Arvind H, Klistorner A, Graham S, Grigg J, Goldberg I, Klistorner A, Billson F (2007). Dichoptic stimulation improves detection of glaucoma with multifocal visual evoked potentials. *Investigative Ophthalmology and Visual Science* 48:4590-4596.
- Bravo-Nuevo A, Williams NK, Valter K, Stone J (2007). Relationship between mitochondrial DNA damage and photoreceptor death in developing and adult retina, assessed in normal and degenerative rat strains. *Mitochondrion* 7:340-6.
- Chalasan R, Poole-Warren L, Conway R, Ben-Nissan B (2007). Porous orbital implants in enucleation: a systematic review. *Survey of Ophthalmology* 52:145-155.
- Chilov M, Grigg J, Pla yfair T (2007). Bevacizumab (Avastin) for the treatment of neovascular glaucoma. *Clinical and Experimental Ophthalmology* 35:494-496.
- Figueira E, Conway R, Francis I (2007). Choroidal osteoma in association with Stargardt's dystrophy. *British Journal of Ophthalmology* 91:978-979.
- Gillies R, Hogg M, Kohan L, Cordingley R (2007). Adaptive bone remodelling of all polyethylene unicompartamental tibial bearings. *ANZ Journal of Surgery* 77:69-72.
- Gillies M, Islam A, Zhu M, Larsson J, Wong T (2007). Efficacy and safety of multiple intravitreal triamcinolone injections for refractory diabetic macular oedema. *British Journal of Ophthalmology*. 91:1323-1326.
- Goldberg I (2007). Is this neuroprotective drug good for my glaucoma patients? Some key factors in clinical decision-making. *Canadian Journal of Ophthalmology* 42:418-20.
- Goldberg I, Adena MA (2007). Co-prescribing of topical and systemic beta-blockers in patients with glaucoma: a quality use of medicine issue in Australian practice. *Clinical and Experimental Ophthalmology* 35:700-5.
- Goldberg I, Ritch R, Mietz H, Krieglstein GK (2007). Postoperative application of mitomycin C improves the complete success rate of primary trabeculectomy: a prospective, randomized trial. *Graefes Archives of Clinical and Experimental Ophthalmology* 244:1429-1436.
- Hains P, Truscott R (2007). Post-translational modifications in the nuclear region of young, aged, and cataract human lenses. *Journal of Proteome Research* 6:3935-3943.
- Heys K, Friedrich M, Truscott R (2007). Presbyopia and heat: changes associated with aging of the human lens suggest a functional role for the small heat shock protein, alpha-crystallin, in maintaining lens flexibility. *Aging Cell* 6:807-815.
- Howden J, McCluskey P, O'Sullivan G, Ghabrial R (2007). Assisted local anaesthesia for endoscopic dacryocystorhinostomy. *Clinical and Experimental Ophthalmology* 35:256-261.
- Iyengar L, Wang Q, Rasco JEJ, McAvoy JW, Lovicu FJ (2007). Duration of ERK1/2 phosphorylation induced by FGF or ocular media relates to lens cell fate. *Differentiation* 75:662-8.
- Jamieson R, Farrar N, Stewart K, Perveen R, Mihelec M, Carette M, Grigg J, McAvoy J, Lovicu F, Tam P, Scambler P, Lloyd I, Donnai D, Black G (2007). Characterization of a familial t(16;22) balanced translocation associated with congenital cataract leads to identification of a novel gene, TMEM14, expressed in the lens and disrupted by the translocation. *Human Mutation* 28:968-977.
- Kalinowski D, Jamie J, Truscott R, Hains P, Mizdrak J, Davies M (2007). Novel human lens metabolites from normal and cataractous human lenses. *Tetrahedron* 63:4990-4999.
- Kanthan G, Jayamohan J, Yip D, Conway R (2007). Management of metastatic carcinoma of the uveal tract: an evidence-based analysis. *Clinical and Experimental Ophthalmology* 35:553-565.
- Klistorner A, Graham S, Fraser C, Garrick R, Nguyen T, Paine M, O'Day J, Grigg J, Arvind H, Billson F (2007). Electrophysiological evidence for heterogeneity of lesions in optic neuritis. *Investigative Ophthalmology and Visual Science* 48:4549-4556.
- Klistorner A, Graham S, Martins A, Grigg J, Arvind H, Kumar R, James A, Billson F (2007). Multifocal blue-on-yellow visual evoked potentials in early glaucoma. *Ophthalmology* 114:1613-1621.

## 10. Publications in 2007 *(continued)*

- Knox Cartwright N, Tole D, Haynes R, Males J, Dick A, Mayer E (2007). Recovery from macular phototoxicity after corneal triple procedure. *Cornea* 26:102-104.
- Korlimbinis A, Aquilina J, Truscott R (2007). Protein-bound and free UV filters in cataract lenses. The concentration of UV filters is much lower than in normal lenses. *Experimental Eye Research* 85:219-225.
- Korlimbinis A, Aquilina J, Truscott R (2007). Protein-bound UV filters in normal human lenses: the concentration of bound UV filters equals that of free UV filters in the center of older lenses. *Investigative Ophthalmology and Visual Science* 48:1718-1723.
- Lai K, Di Girolamo N, Conway RM, Jager MJ, Madigan MC (2007). The effect of ultraviolet radiation on choroidal melanocytes and melanoma cell lines: cell survival and matrix metalloproteinase production. *Graefes Archive for Clinical and Experimental Ophthalmology* 245:715-24.
- Lai K, Sharma V, Jager M, Conway R, Madigan MC (2007). Expression and distribution of MUC18 in human uveal melanoma. *Virchows Archiv*: 451:967-976.
- Landers J, Sharma A, Goldberg I, Graham S (2007). A comparison of global indices between the Medmont Automated Perimeter and the Humphrey Field Analyzer. *British Journal of Ophthalmology* 91:1285-1287.
- Lawlor M, Kerridge I, Ankeny R, Billson F (2007). Public education and organ donation: untested assumptions and unexpected consequences. *Journal of Law and Medicine* 14:360-6.
- Markus MA, Goy C, Adams DJ, Lovicu FJ, Morris BJ (2007). Renin enhancer is crucial for full response in Renin expression to an in vivo stimulus. *Hypertension* 50:933-8.
- Merani R, Sa-Ngiampornpanit T, Kerdraon Y, Billson F, McClellan KA (2007). Euphorbia lactea sap keratouveitis: case report and review of the literature. *Cornea* 26:749-52.
- Merani R, Hunyor A, Playfair T, Chang A, Gregory-Roberts J, Hunyor A, Azar D, Cumming R (2007). Pars plana vitrectomy for the management of retained lens material after cataract surgery. *American Journal of Ophthalmology* 144:364-370.
- Millar M, Bulliard C, Balachandran C, Maloof A (2007). Mycobacterium hemophilum infection presenting as filamentary keratopathy in an immunocompromised adult. *Cornea* 26:764-766.
- Nemet A, Martin P, Bengler R, Kourt G, Sharma V, Ghabrial R, Danks J (2007). Orbital exenteration: a 15-year study of 38 cases. *Ophthalmic Plastic and Reconstructive Surgery* 23:468-472.
- O'Connor MD, McAvoy JW (2007). In vitro generation of functional lens-like structures with relevance to age-related cataract. *Investigative Ophthalmology and Visual Science* 48:1245-52.
- Palmer S, Tay E, Santucci N, Cuc Bach T, Hook J, Lemckert F, Jamieson R, Gunning P, Hardeman E (2007). Expression of Gtf2ird1, the Williams syndrome-associated gene, during mouse development. *Brain Research* 7:396-404.
- Parker N, Korlimbinis A, Jamie J, Davies M, Truscott R (2007). Reversible binding of kynurenine to lens proteins: potential protection by glutathione in young lenses. *Investigative Ophthalmology and Visual Science* 48:3705-3713.
- Pennisi DJ, Wilkinson L, Kolle G, Sohaskey ML, Gillinder K, Piper MJ, McAvoy JW, Lovicu FJ, Little MH (2007). Crim1 (KST264/KST264) mice display a disruption of the Crim1 gene resulting in perinatal lethality with defects in multiple organ systems. *Developmental Dynamics* 236:502-511.
- Quin G, Len A, Billson F, Gillies M (2007). Proteome map of normal rat retina and comparison with the proteome of diabetic rat retina: new insight in the pathogenesis of diabetic retinopathy. *Proteomics* 7:2636-50.
- Singh P, Taylor S, Murali R, Gomes L, Kanthan G, Maloof A (2007). Disseminated mucormycosis and orbital ischaemia in combination immunosuppression with a tumour necrosis factor alpha inhibitor. *Clinical and Experimental Ophthalmology* 35:275-280.
- Skalicky S, Hirst L, Conway R (2007). Metastatic breast carcinoma presenting as a conjunctival lesion. *Clinical and Experimental Ophthalmology* 35:767-769.
- Swamy B, Billson F, Martin F, Donaldson C, Hing S, Smith J, Jamieson R, Grigg J (2007). Secondary glaucoma after paediatric cataract surgery. *British Journal of Ophthalmology* 91:1627-1630.

## 10. Publications in 2007 *(continued)*

Swamy BN, Chilov M, McClellan K, Petsoglou C (2007). Topical non-steroidal anti-inflammatory drugs in allergic conjunctivitis: meta-analysis of randomized trial data. *Ophthalmic Epidemiology* 14:311-9.

Swamy B, McCluskey P, Nemet A, Crouch R, Martin P, Bengner R, Ghabrial R, Wakefield D (2007). Idiopathic orbital inflammatory syndrome: clinical features and treatment outcomes. *British Journal of Ophthalmology* 91:1667-1670.

Symes R, Catt C, Sa-ngiampornpanit T, Males J (2007). Corneal perforation associated with pellucid marginal degeneration and treatment with crescentic lamellar keratoplasty: two case reports. *Cornea* 26:625-628.

Symes R, Catt C, Males J (2007). Diffuse lamellar keratitis associated with gonococcal keratoconjunctivitis 3 years after laser in situ keratomileusis. *Journal of Cataract and Refractive Surgery* 33:323-325.

Townend BS, Sturm JW, Petsoglou C, O'Leary B, Whyte S, Crimmins D (2007). Perimetric homonymous visual field loss post-stroke. *Journal of Clinical Neuroscience* 14:754-6.

van Heyningen V, Williamson K, Mackey D, Kearns L, Hewitt A, Jamieson R (2007). PAX6 mutations may be associated with high myopia. *Ophthalmic Genetics* 28:179-182.

### **Book Chapter**

Truscott R (2007). Eye lens proteins and cataracts. In: *Protein Misfolding, Aggregation, and Conformational Diseases Part B: Molecular Mechanisms of Conformational Diseases*. United States: Springer p435-450.

## 11. Financial Statements

### Save Sight Institute Income Statement for the year ended 31 December 2007

	31 December 2007 \$	31 December 2006 \$
<b>Income</b>		
Grants	2,028,475	2,805,364
Scholarships, Donations and Bequests	699,819	410,764
Business and Investment Income	149,394	145,808
Internal and other Income	913,703	1,118,376
<b>Total Income</b>	<b><u>3,791,391</u></b>	<b><u>4,480,312</u></b>
<b>Expenditure</b>		
Salaries	2,132,048	2,113,282
Consumables	271,221	194,858
Equipment and Repairs/Maintenance	181,059	595,060
Services and Utilities	5,138	27,001
Travel, Conferences and Entertainment	120,565	137,401
Other Expenses	525,092	349,323
<b>Total Expenditure</b>	<b><u>3,235,124</u></b>	<b><u>3,416,925</u></b>
<b>Surplus</b>	556,267	1,063,387
Accumulated Funds as at 1 January	2,363,417	1,300,030
<b>Total Accumulated Funds</b>	<b><u>2,919,684</u></b>	<b><u>2,363,417</u></b>

#### Notes to the Financial Statements for the year ended 31 December 2007

##### Statement of Significant Accounting Policies

- a) These accounts have been prepared on a cash basis and amounts are stated at historical cost.
- b) Income tax is not applicable to activities of the Foundation.
- c) All fixed assets are expensed in the year of purchase.

## 11. Financial Statements (continued)

### Save Sight Institute Balance Sheet as at 31 December 2007

	31 December 2007 \$	31 December 2006 \$
<b>Assets</b>		
<b>Current Assets</b>		
Petty Cash	1,000	1,000
Funds Participating in University Pool Interest	2,918,684	2,362,417
<b>Total Current Assets</b>	<u>2,919,684</u>	<u>2,363,417</u>
<b>Total Assets</b>	<u><u>2,919,684</u></u>	<u><u>2,363,417</u></u>
<b>Equity</b>		
Accumulated Funds	2,918,684	2,363,417
<b>Total Equity</b>	<u><u>2,918,684</u></u>	<u><u>2,363,417</u></u>

I certify that the Income Statement and Balance Sheet of the Foundation have been prepared in accordance with the University's accounting practices and procedures. These Foundation accounts form part of The University of Sydney's financial reports which have been audited by the Auditor-General, New South Wales.



Mark Easson BCom CA MBA  
Finance Director  
Faculties of Health  
April 14, 2008



## 12. Donations

The SSI would like to thank all of our supporters who have, over the last year, helped us to continue our research, teaching and community awareness programs. Listed below are the major contributors for the year 2007.

### Major Donors

Mr Derek C Batts  
Mr William P G Davies  
Mr Francis Lin  
Mr Graham Matterson  
Miss Joy Mawson  
Mrs Mabs Melville  
Miss Dorothy Spry  
Friends of Sydney Hospital (FOSH)

### Gold Members

Ms Linda M Banks  
Dr Ross Bengier  
Professor Frank Billson AO  
Mr CWL Boyd  
Dr Kenneth G Coles AM  
Mrs Rowena Danziger AM  
Mr Ben Meek  
Mr Michael O'Dea AM  
Mr Conrad H Oppen  
Mrs Marno Parsons AM  
Dr Justin Playfair  
Mr Gianpaolo Sessini  
Miss Alison M Stephen  
Mr John DR Stutt  
Mrs Margaret Thorn  
Mrs Caroline Wilkinson  
Professor Sir Bruce R Williams KBE  
Austr College of Veterinary Scientists - Ophthalmol Chapter  
Northbridge-Cammeray Masonic Hall Co Pty Ltd

### Silver Members

Mr Richard Bayley  
Ms Jenny E Clarke  
Mrs Roxanne Ebina  
Mr Anthony Hickey  
Mr Peter B Ketley  
Associate Professor Frank J Martin  
Mr Bruno A Pase  
Mr Ian Pope  
Mr Toni L Roediger  
Mr Will J Utiger  
Dr Derrick F Woodhouse  
TA Bandy & Company Pty Ltd

### Lions Clubs - Members

Braidwood Lions Club  
Lions Club of Canberra and Brindabella

Lions Club of Dorrigo Plateau  
Grenfell Lions Club  
Lions Club of the Hunter and Wallsend  
Lions Club of Narara Valley  
Lions Club of Newcastle  
Oak Flats Lions Club  
Lions Club of Queanbeyan  
Lions Club of Wangi Wangi

### Members

Mr Edward F Billson  
Mrs Gail Billson  
Mr John Culkin  
Mr Robert L Cunnneen  
Mr Gordon Doyle  
Mrs Roma L Doyle  
The Late Mrs Gladys Fardell  
Professor Ramzi Fayed  
Mr Roy R Fernandez AO  
Mr George E Foster  
Dr Emmanuel M Gregory  
Mr John P Griffin  
Miss Jeanne E Hale  
Dr Stephen J Hing  
Dr Gregory S Horowitz  
Ms Rosalind J Irwin  
Mrs Marjorie Jones  
Mr John Luckey  
Dr Kathy A McClellan  
Mrs Heather McKimm  
Mr Reginald W Moody  
Mr Moses Opondo  
Dr Christopher E Peterson  
Mr Matthew C Potter  
Mrs Pamela J Reid  
Dr Allan M Rosenberg  
Dr Joan E Rowlands AM  
Mrs Carolyn M Rutter  
Mrs Jane Sharpington-Recny  
Mr Donald M Taylor  
Mrs M T Walker  
Mr Colin Watson OAM  
Mrs Esther Williams  
Dr Hoong G Wong  
Mrs Dorothy A Wood  
The Hon Justice James R T Wood AO  
Mr William J Youll OAM  
KPMG Australia

## 13. Share the Vision ... Invest in the Future

Bequests and Donations ensure the future of the Save Sight Institute.

### Bequests & Donations

Donations over \$2 are tax deductible.

**A bequest could take one of the following forms in your Will.**

#### Money

I GIVE to the Save Sight Institute, the University of Sydney, the sum of \$..... which I direct to be paid to the Honorary Treasurer of the Save Sight Institute to be applied for the purposes of the Save Sight Institute in such manner as the Council of Governors may determine.

#### Property

I GIVE to the Save Sight Institute, the University of Sydney, my property (insert address) or (my shares, debentures, etc. and describe them, e.g. BHP shares) to be applied for the purposes of the Save Sight Institute in such manner as the Council of Governors may determine.

#### General

If you wish to leave the whole or part of your estate:

I GIVE to the Save Sight Institute, the University of Sydney, the whole (or specified percentage or the residue) of my estate or whatsoever nature or kind and whatsoever situated, to be applied for the purposes of the Save Sight Institute in such manner as the Council of Governors may determine.

**For further information, please contact the Save Sight Institute on:**

Telephone: (02) 9382 7302

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**Share with us  
a vision of  
Sight for Life!**







**SAVE SIGHT**  
**I N S T I T U T E**  
UNIVERSITY OF SYDNEY

## Save Sight Institute

### **Incorporating:**

Save Sight Institute

University of Sydney, Discipline of Clinical Ophthalmology & Eye Health

Lions NSW Eye Bank

Lions Prevention of Blindness Unit

Foresight Australia

Sight for Life

### **Located at**

Sydney Eye Hospital Campus

Macquarie Street, Sydney NSW 2000

### **Postal Address**

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