

Dr Noel Alpins AM

Digest of Personal and Professional biography

Work Address: 7 Chesterville Road Cheltenham 3192

Dr Noel Alpins AM has been specialising in Cataract and Refractive Surgery since founding NewVision Clinics in Melbourne in 1996. He speaks widely on these topics at national and international meetings and has been a keynote speaker and chair on many occasions. He has taught in astigmatism courses both in USA and Europe for more than 15 years. Dr Alpins presented at the RANZCO Council Lecture, in Adelaide in 2010. In November 2012 he was awarded the International Society Refractive Surgery (ISRS) Lans Distinguished Award at the Annual Meeting in Chicago for his innovative contributions to the field of refractive surgery especially in the correction of astigmatism. He was honoured in August 2012 with the Gold Medal at Eye Advance in Mumbai for Outstanding Contribution to Ophthalmology. He is also a recipient of the 2013 American Academy Ophthalmology (AAO) Achievement Award and the ISRS Lifetime Achievement award for his internationally recognised contributions to the advancement of refractive surgery over his career. In May 2015 he was awarded the Certificate of Outstanding Contribution in Reviewing for Elsevier in recognition of his contributions made to the quality of the journal. He has been invited to present the RANZCO Gregg Lecture at the 2017 meeting to be held in Perth.

He pioneered small incision cataract surgery in Victoria in 1987 and is a Foundation and current member of the Excimer Laser & Research Group since 1991. Dr Alpins is also a clinical senior lecturer as an honorary senior fellow at the University of Melbourne where he completed his Diploma of Ophthalmology in 1977 prior to commencing practice in general ophthalmology.

Dr Alpins is on the RANZCO program committee as chairman of subcommittees of invited speakers and the editorial board of several ophthalmic information magazines and peer reviewed journals including Journal of Cataract and Refractive Surgery, EuroTimes, Ocular Surgery News and Indian Intraocular Implant & Refractive Society and has published widely with more than 100 published

articles in these and has contributed more than 20 book chapters. He is on the international advisory board for Refractive Surgery in China and is also an international council member of International Society of Refractive Surgery of the American Academy of Ophthalmology. He has developed new techniques for analysing astigmatism known as Alpins Method and has been acknowledged by Journals as the standard for reporting astigmatism surgery outcomes. These have also been adopted as the standard for evaluating laser treatments in the peer reviewed literature and regulatory authorities as the ANSI standard. Dr Alpins developed the *ASSORT* Surgical Management Systems computer program for surgical management systems for vector planning of treatment and outcomes analysis of cataract and refractive surgery used by colleagues in Australia and overseas the iAssort program is now interfaced with more than 10 different topographers which provide the new CorT parameter that he developed for quantifying corneal astigmatism. Noel has also made available several free website applications calculators for colleagues use on the *ASSORT* website.

When Dr Alpins is not practicing ophthalmology, he enjoys playing golf, skiing, going to live entertainment and spending time with Sylvia and their family.

Practice: Private group practice Medical Director of Cheltenham Eye Centre and NewVision Clinics, Melbourne, Australia

Focus: Cataract/IOL and Refractive Surgery

Education: Medical degree (M.B., B.S.), University of Melbourne, 1970; Diploma of Ophthalmology, University of Melbourne, 1977.

Residency: Alfred Hospital, Australia, 1971-72

Fellowships and Certifications: Ophthalmology Registrar, Royal Victoria Eye & Ear Hospital, Australia, 1974-77; Fellow, Royal Australian & New Zealand College of Ophthalmologists, 1978; Fellow, Royal Australian College of Surgeons, 1978; Fellow, American College of Surgeons, 1985; and Fellow, Royal College of Ophthalmologists (UK), 1989; Fellow, American Board of Eye Surgery, 2005.

Memberships: International Intra-ocular Implant Club IIIC; American Society of Cataract and Refractive Surgeons; European Society of Cataract & Refractive Surgeons;

International Society of Refractive Surgery; American Academy of Ophthalmology; Australian Medical Association.

Accomplishments: Developed the Alpines Method of astigmatism analysis in 1993; founded ASSORT Pty. Ltd. in 1992 to market the *ASSORT* planning and outcome analysis computer program for cataract and refractive surgery. Is a recognized world authority on astigmatism analysis and treatment; speaks and chairs symposia at major meetings; serves as reviewer for peer-reviewed journals and writes regularly for ophthalmic information magazines. Performed first phacoemulsification procedure in Victoria in May 1987. Was first surgeon in Australia to employ computerized outcomes and astigmatism analysis. Won the 1993 Borland Paradox Challenge for the *ASSORT* program. Patented his method for treating and analyzing astigmatism (U.S. and other countries). Developed a new multizone, multipass algorithm for excimer laser myopia treatment adopted by the Melbourne Excimer Laser Group for patient treatment. Was nominated for inaugural Trokel Award for excellence in laser refractive surgery, 1994- 95. Eye Advance Mumbai 2006 – Recipient of a Gold Medal for Distinguished Contribution to Ophthalmology. Invited speaker for Council Lecture, RANZCO, Adelaide 2010. International Society Refractive Surgery (ISRS) Lans Distinguished Award 2012. Gold Medal recipient at Eye Advance in Mumbai 2012. American Academy Ophthalmology (AAO) Achievement Award 2013. Australia Day ambassador ongoing since 2011. He was awarded the Lifetime Achievement Award by the ISRS of the AAO in October 2014 for his significant and internationally recognised contributions to the advancement of refractive surgery over his career. Certificate of Outstanding contribution in reviewing for Elsevier in 2015 in recognition of the contributions made to the quality of the journal. In 2017, Dr Alpines was awarded with his Member of General Division of Order of Australia AM Honour for his significant service to ophthalmology, particularly to the development of innovative refractive surgery techniques, and to professional associations.

Publications: Has written numerous articles in newsmagazines and peer reviewed journals. Has served on editorial board, *Eyecare Technology* and *EyeWorld* magazine; and online consultation panel in areas of cataract surgery and refractive surgery for *Ocular Surgery News* and *EyeWorld* magazine. **Book being released 2017**

Professional Activities: Founding Member, Excimer Laser & Research Group, University of Melbourne 1991; Member, Protocol & Ethics Committee of the Excimer Laser & Research Group, University of Melbourne 1991; Past chairman of the Como Private Hospital Theatre and Infection Committee, 1985-92; Investigator and Global Advisor for VisX Inc. USA 1998-1999, 2005; Scientific Program Committee of Royal Australian and New Zealand College Ophthalmologists since 2005; Associate Fellow, University of Melbourne, Department of Ophthalmology 2006, Honorary Senior Fellow, University of Melbourne 2013.

Personal Characteristics: Willing to question authority and mainstream thinking in the pursuit of new methods and better patient care. Possesses keen analytical mind for problem-solving. Appreciates innovation born of the practical necessities of clinical practice as opposed to esoteric research typical of academic settings. Aggressively pursues continuing medical education to keep up with new developments.

Personal: Enjoys golf and skiing. and travel with his wife Sylvia and three daughters. Fiona, Vanessa and Martine.

Dr Noel Alpins Curriculum Vitae

M.B., B.S	University of Melbourne	1970
D.O.	Diploma of Ophthalmology University of Melbourne	1977
F.R.A.N.Z C.O.	Fellow Royal Australian and New Zealand College of Ophthalmologists	1978
F.R.A.C.S.	Fellow Royal Australian College of Surgeons	1978
F.A.C.S.	Fellow American College of Surgeons	1985
F.R.C.Ophth	Fellow Royal College Ophthalmologists (UK)	1989
AM	Member of General Division of Order of Australia AM Honour	2017

Memberships and Fellowships:

	Foundation member of the Excimer Laser & Research Group, University of Melbourne	1991
	Foundation member of the Protocol & Ethics Committee Of the Excimer Laser & Research Group, University of Melbourne	1991
IIIC	Member of the International Intra-ocular Implant Club	1998
GMC	Appointed Member of the General Medical Council, UK	1998
ABES	Member of the American Board of Eye Surgery	2005
CERA	Associate Fellow- Melbourne University Department of Ophthalmology	2006
CERA	Honorary Senior Fellow - Melbourne University Department of Ophthalmology	2013

AAO	Fellow American Academy of Ophthalmology
ASCRS	Member American Society of Cataract and Refractive Surgeons
ESCRS	Member European Society of Cataract and Refractive Surgeons
ISRS	International Council Member of International Society Refractive Surgery
AMA	Member Australian Medical Association

Editorial Board Member:

EyeCare Technology Magazine, USA	Appointed 1994
Ocular Surgery News, USA – Domestic Edition: Refractive Surgery section	Appointed 1998
Ocular Surgery News – International Edition	Appointed 1998
Journal of Cataract & Refractive Surgery	Appointed 1999
EyeWorld	1999 – 2005
Eurotimes	Appointed 2007
Intraocular Implant & Refractive Society, India	Appointed 2007
Highlights of Ophthalmology	Appointed 2007
Refractive Surgery in China	Appointed 2008
ISRN Surgery	Appointed 2011
Scientifica	Appointed 2012
Journal of Ophthalmology and Visual Sciences	Appointed 2015
The Journal of Computer Science and Software Development	Appointed 2015
Journal of Refractive Surgery	Appointed 2016

Consultation Panel:

Ocular Surgery News, USA and Domestic editions	Appointed 1995
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Retained Consultant to Alcon Laboratories, Texas

Appointed 1996

Royal College of Ophthalmologists (RCO) and Ulster University:
Contributor to the PgDip Cataract and Refractive Surgery online course by
providing lecture material on addressing aspects of analysis of surgical astigmatism

Editorial Citations:

Journal Cataract & Refractive Surgery
(see published articles and papers)

December 1997;
March 1998;
December 1998;
Jan 2001;
December 2006;
August 2008;
September 2008;
June 2012;
October 2014;
April 2017

Keynote Speaker:

Date:	Conference:	Title:
February 2001	Third Biennial IIC Meeting, Cape Town, South Africa	'Advances in Laser Technology'
September 2001	ESCRS, Symposium of Astigmatism, Amsterdam 2001	'How to improve Management of visual performance by LASIK and PRK'
July 2003	Fortieth Anniversary Meeting, Melbourne University Ophthalmology Department	'Cataract Surgery- what we know and what we need to know'
November 2005	MaSIS – Malaysian Small Incision Surgery Society	Guest Speaker – six 40 minute presentations
February 2006	ESCRS, Winter Refractive Surgery, Monaco, Monte- Carlo Topography or Wavefront Based Ablation	'Combined Wave- font and topography data for excimer laser surgery
September 2006	ESCRS, London XXIV Congress of the ESCRS Assessing Outcomes in Refractive Surgery	'Which outcomes to measure'

October 2006	Eye Advance, The VIth International Congress on Advances in Ophthalmology <i>Invited Presentation, Gold Medal Recipient</i>	'New horizons in the diagnosis and treatment of Astigmatism in Refractive Laser surgery
April 2008	NYU Hospital teaching program, Bellevue Hospital	'Understanding astigmatism analysis and treatment in cataract and refractive surgery
March 2009	Moran Eye Centre, University of Utah, Lake City- Great Rounds- <i>Visiting Professor</i>	'New horizons in the treatment and analysis of astigmatism
September 2010	ESCRS, Paris	Astigmatism Symposium
November 2010	RANZCO, Adelaide 42 nd Annual Scientific Congress	Council Lecture
October 2013	ESCRS Amsterdam, Netherlands <i>Invited Speaker, JCRS Symposium</i>	Is Excimer laser treatment of suspected Keratoconic eyes justified
September 2016	EuCornea Copenhagen, Denmark <i>Invited Speaker, Cornea Day</i>	Surgically Induced Astigmatism and Flattening Effect for cataract surgery
November 2017	RANZCO, Perth 49 th Annual Scientific Congress	Invited Gregg Lecture

Nominations and Awards:

Awarded	Borland International (Australia & NZ) Paradox programming award 1993	1993
Nominated	Inaugural Trokel Award for excellence in laser Refractive surgery (see page 49	1994-1995

50 for attached citation)

Awarded	Best presentation of Session at ISRS “Refractive Cataract Surgery Planning”	Nov 1995
Awarded	Best Paper of session ASCRS, San Diego “Achieving LASIK Super Vision by Minimizing and Regularizing Topographic and Wavefront Refraction Astigmatism”	April 2001
Awarded	Eye Advance Gold medal for distinguished Contribution to Ophthalmology	1996
Awarded	Gold medal at Eye Advance Mumbai For outstanding contribution to Ophthalmology	Aug 2012
Awarded	ISRS Lans distinguished award	Nov 2012
Awarded	AAO Achievement award	Nov 2013
Awarded	ISRS Lifetime achievement award	Nov 2013
Awarded	Elsevier certificate of outstanding Contribution in reviewing	May 2015
Awarded	Gold medal of recognition at IIRSI Chennai, India	July 2016
Awarded	Member of General Division of Order of Australia AM Honour	January 2017

Developer and Inventor of:

Inventor: New method of treating and analysing astigmatism
Holds multiple patents in USA, Australia, New Zealand, South Korea, Europe, Japan, China, and Canada.

ASSORT – Computer software program for surgical management (**Alpins Statistical System for Ophthalmic Refractive-surgery Techniques**) -*Winner Borland International (Australia & NZ) Paradox programming award 1993*

Developer: Multizone Multipass algorithm for excimer laser myopia treatment adopted by Melbourne Excimer Laser Group for patient treatments (see published articles and papers).

Corporate Advisory Position:

Past Chairman of the Como Private Hospital Theatre and Infection Committee	1985-1992
Investigator and Global Advisor for VisX Inc. USA.	1998-1999
Investigator Bausch & Lomb – Laser Aberrometry treatment	2004-2005
Investigator AMO VisX – Laser Aberrometry treatment	2005
Royal Australian & New Zealand College of Ophthalmologist <i>Program Committee Member</i>	2005
Biosyntrix International Scientific Advisory Board	2005
Alcon Board of Advisors	2007

Published peer reviewed papers:**First Author:**

Alpins NA. A new method of analyzing vectors for changes in astigmatism. J Cataract Refract Surg 1993; 19:524-533

Alpins NA. New method of targeting vectors to treat astigmatism. J Cataract Refract Surg 1997; 23:65-75

Alpins NA. Vector analysis of astigmatism changes by flattening, steepening and torque. J Cataract Refract Surg 1997; 23:1503-1514

Alpins NA, Taylor HR, Kent DG, Lu Y, Liew M, Couper T, McGough V. Three multizone photorefractive keratectomy algorithms for myopia. Melbourne Excimer Laser Group. J Refract Surg 1997; 13:535-544

Alpins NA. Treatment of irregular astigmatism. J Cataract Refract Surg 1998; 24:634-646

Alpins NA, Tabin GC, Adams L, Aldred GF, Kent DG, Taylor HR. Refractive versus corneal changes after photorefractive keratectomy for astigmatism. J Refract Surg 1998; 14:386-396

Alpins NA. Astigmatism Analysis by the Alpins method. J Cataract Refract Surg 2001; 27:31-49

Alpins NA. Wavefront Technology: A New Advance That Fails to Answer Old Questions on Corneal vs. Refractive Astigmatism Correction. J Refract Surg 2002; 18:737-739

Alpins NA, Goggin M. Practical Astigmatism Analysis for Refractive Outcomes in Cataract and Refractive Surgery. *Surv of Ophthal* 2004; 49:109-122

Alpins NA, Stamatelatos G. Customized photoastigmatic refractive keratectomy using combined topographic and refractive data for myopia and astigmatism in eyes with forme fruste and mild keratoconus. *J Cataract Refract Surg* 2007; 33:591-602

Alpins NA, Stamatelatos G, Walsh G. Advances in planning refractive laser and cataract surgery. *Intraocular Implant & Refractive Society, India* 2007; Vol 3 No 2:31-34

Alpins NA, Stamatelatos G. Clinical outcomes of laser in situ keratomileusis using combined topography and refractive wavefront treatments for myopic astigmatism. *J Cataract Refract Surg* 2008; 34:1250-1259

Alpins NA, Stamatelatos G. New method of quantifying corneal topographic astigmatism that corresponds with manifest refractive cylinder. *J Cataract Refract Surg* 2012; 38: 1978- 1988

Alpins NA, Stamatelatos G, Ong J. Refractive surprise after toric intraocular lens implantation: Graph analysis. *J Cataract Refract Surg* 2014; 40: 283-294

Alpins NA, Ong J, Stamatelatos G. Corneal coupling of astigmatism applied to incisional and ablative surgery. *J Refract Surg* 2014; 40: 1813-1827

Alpins NA, Ong J, Stamatelatos G. Corneal topographic (CorT) to quantify total corneal astigmatism. *J Refract Surg* 2015; 182-187

Alpins NA, Ong J, Stamatelatos G. Asymmetric Corneal Flattening Effect After Small Incision Cataract Surgery. *J Refract Surg* 2016 Vol. 32, No. 9; 598-603

Alpins NA, Ong J, Stamatelatos G. The role of hemidivisional CorTs in the regularisation and reduction of irregular astigmatism. *Investigative Ophthalmology and visual science* 201x, Vol. xx, No x (under review)

Alpins NA, Ong J, Stamatelatos G. Planning for coupling effects in bitoric mixed astigmatism ablative treatments. *J Cataract Refract Surg* 201x; Vol xx. No.x (under review)

Joint Author:

Taylor HR, Guest CS, Kelly P, Alpins NA. Comparison of excimer laser treatment of astigmatism and myopia. Excimer Laser and Research Group. *Arch Ophthalmol* 1993; 111:1621-1626

Taylor HR, Kelly P, Alpins NA. Excimer laser correction of myopic astigmatism. *J Cataract Refract Surg* 1994; 20(suppl):243-251

Tabin GC, Alpíns NA, Aldred GF, Carson CA, Taylor HR. Astigmatic change one year after treatment of myopia and myopic astigmatism with the excimer laser. Melbourne Excimer Laser Group. J Cataract Refract Surg 1996; 22:924-930

Brodovsky S, Couper T, Alpíns NA, McCarty CA, Taylor HR for the Melbourne Excimer Laser Group. Excimer laser correction of astigmatism with multipass/multizone treatment. J Cataract Refract Surg 1998; 24:627-633

Goggin M, Alpíns N, Schmid L. Current Opinion in Ophthalmology. "The management of irregular astigmatism". Current Opinion in Ophthalmology. Lippincott, Williams & Wilkins USA, April 2000; Vol.11, no.4:260-266

Books (single Author):

Alpíns NA "Practical Astigmatism- Planning and Analysis" Slack inc, 2017 (*to be published*)

Book chapters:

First Author:

Alpíns NA, Tabin GC, Taylor HR, "Photoastigmatic refractive keratectomy" in *Excimer Lasers in Ophthalmology; Principles and Practice*. McGhee CNJ, Taylor HR, Gartry DS, Trokel SL, eds. Martin Dunitz Ltd., Publishers, London (UK) May 1997; 243-259.

Alpíns NA. "Effective Optical Zone and Visual Function" in *Custom LASIK: Surgical Techniques and Complications*. Buratto L, Brint S. Slack Inc, NJ 2003; Sect 2, Ch11.2, 432.

Alpíns NA, Terry C. "Vector Planning for Customized LASIK Treatment Incorporating Corneal and Optical Astigmatism Parameters" in *Custom LASIK: Surgical Techniques and Complications*. Buratto L, Brint S. Slack Inc, NJ 2003; Sect 2, Ch27.1, 680-684.

Alpíns NA, Walsh G. "Aberrometry and Topography in the Vector Analysis of Refractive Laser Surgery" in *Wavefront Analysis, Aberrometers and Corneal*

Topography. Boyd BF, Agarwal AA. Highlights of Ophthalmology, Panama 2003; Ch19, 313-322.

Alpíns NA, Stamatelatos G. "Vector Analysis Applications to Photorefractive Surgery" in *International Ophthalmology Clinics – Surgical Correction of Astigmatism, Vol 43*. Sanchez-Thorin JC, Rocha G. Lippincott Williams & Wilkins, Pennsylvania 2003; 1-27.

Alpíns NA, Schmid L. "Combining Vector Planning with Wavefront analysis to Optimize Laser In-Situ Keratomileusis Outcomes" in *Wavefront Customized Visual Correction – The Quest for Super Vision II*. Krueger RR, Applegate RA, MacRae SM. Slack Inc, USA 2004; Ch38, 317-328.

Alpins NA, Terry CM. "Astigmatism: LASIK, LASEK and PRK" in *Master Techniques in Cataract and Refractive Surgery*. Roy FH, Arzabe CW. Slack Inc, NJ 2004; Sect 2, Ch1, 151-160.

Alpins NA, Stamatelatos G. "Combined Wavefront and Topography Approach to Refractive Surgery Treatments" in *Corneal Topography in the Wavefront Era – A Guide for Clinical Application*. Wang M. Slack Inc, NJ 2006; Sect 3, Ch13, 139-143.

Alpins NA, Stamatelatos G. "Corneal Haze" in *Refractive Surgery Nightmares – Conquering Refractive Surgery Catastrophes*. Agarwal A. Slack Inc, NJ 2007; Sect 2, Ch 6, 43-54.

Alpins NA, Walsh G. "Accurate Biometry and Intraocular Lens Power Calculations" in *Refractive Surgery Nightmares – Conquering Refractive Surgery Catastrophes*. Agarwal A. Slack Inc, NJ 2007; Sect 4, Ch 24, 237-244.

Alpins NA, Stamatelatos G. "Optimizing Astigmatic Parameters in Lasik Treatments using Vector Planning" in *Mastering the Techniques of Customized LASIK*. Garg A, Lin JT, Alpins N, Bovet JJ, Pinelli R, Pajic B, Mehta CK. Jaypee Brothers Medical Publishers, New Delhi 2007; Sect 2, Ch13, 141-147

Alpins NA, "The Basics of Astigmatism and how to deal with it" in *Tips & Tricks LASIK surgery*. Kapoor S, Pallikaris IG, Rao SK. Jaypee Brothers Medical Publishers, New Delhi 2007; Ch 10, 141-152

Alpins NA, Stamatelatos G. "New Horizons of Optimizing Astigmatic Parameters in LASIK Treatments using Vector Planning" in *Mastering the Techniques of LASER Applications in Ophthalmology*. Garg A, Lin JT, Alio JL, Azad R, Bovet JJ, Pajic B, Mehta CK. Jaypee Brothers Medical Publishers, New Delhi 2008; Ch 54, 397-402

Alpins NA, Stamatelatos G. "Treating Stable Corneas: Combined Consideration of Wavefront and Topography-Guided Treatment" in *Irregular Astigmatism Diagnosis and Treatment*. Wang M. Slack Inc, NJ 2008; Ch 19, 177-183

Alpins NA, Stamatelatos G. "Asymmetrical Surgical Treatment Using Vector Planning" in *Irregular Astigmatism Diagnosis and Treatment*. Wang M. Slack Inc, NJ 2008; Ch 29, 263-268

Alpins NA, Walsh G. "Cylinder" in *Management of Complications in Refractive Surgery*. Alio J, Azar D. Springer-Verlag, Berlin Heidelberg 2008; Ch 6, 106-112

Alpins NA, Stamatelatos G. "Measuring Astigmatism" in *Mastering Refractive IOLs – the Art and Science* Chang D. Slack Inc, NJ 2008; Sect 10, Ch 159, 581-585

Alpins NA, "LRI's with 2.2mm Incision and Surgery fore Dense Cataract using Vision Blue" in *Jaypee's Video Atlas of Ophthalmic Surgery*. Garg A, Fine IH, Pallikaris IG et al. Jaypee Brothers Medical Publishers, New Delhi 2008; Sect 1, Video XXXVI

Alpins NA, "Lasik with Amadeus Microkeratome for High Myopia and Astigmatism (Astigmatic Lasik)" in *Jaypee's Video Atlas of Ophthalmic Surgery*. Garg A, Fine IH, Pallikaris IG et al. Jaypee Brothers Medical Publishers, New Delhi 2008; Sect 2, Video XV

Alpins NA, "PRK with Mitomycin C for High Myopia" in *Jaypee's Video Atlas of Ophthalmic Surgery*. Garg A, Fine IH, Pallikaris IG et al. Jaypee Brothers Medical Publishers, New Delhi 2008; Sect 2, Video XVI

Alpins NA, Walsh G. "Aberrometry and Topography in the Vector Analysis of Refractive Laser Surgery" in *Refractive Surgery – 2nd Edition*. Agarwal A, Agarwal A, Jacob S. Jaypee Brothers Medical Publisher, New Delhi 2009; Sect 1, Ch 8, 79-87

Gulani AC, Nordan Lee, Alpins NA, Stamatelatos G. "Excimer Laser Photorefractive Keratectomy for Keratoconus" in *Keratoconus & Keratoectasia. Prevention, Diagnosis, and Treatment*. Wang M. Slack Inc, NJ 2010; Ch 14, 145-151

Alpins NA, Walsh G. "Aberrometry and Topography in the Vector Analysis of Refractive Laser Surgery" in *Dr Agarwal's Textbook on Corneal Topography Including Pentacam and Anterior Segment OCT – 2nd Edition*. Agarwal A, Agarwal A, Jacob S. Jaypee Brothers Medical Publisher, New Delhi 2010; Sect 4, Ch 12, 175- 184

Alpins NA, Stamatelatos G. "Treatment and Analysis of Astigmatism During the Laser Era" in *Modern Ophthalmology: The Highlights – Volume II*. Boyd B. Jaypee – Highlights Medical Publishers, Panama 2010; Ch 24, Part X, 381-410

Alpins N, Stamatelatos G. Planning Keratorefractive Treatments Using Wavefront and Corneal Topography Data in Wang M, ed. *Corneal Topography: A Guide for Clinical Application in the Wavefront Era*. Thorofare, NJ: SLACK Incorporated 2012: 253-258

Alpins N, Stamatelatos G. Measuring Astigmatism Planning Surgery and Tracking Results in Nichamin LD. *Limbal Relaxing Incisions: A Practical Guide*. SLACK Incorporated 2014

Consultation Section:

How would you advise a patient who had RK two years ago and now complains of binocular imbalance, fluctuating vision and night-time glare? *J Cataract Refract Surg*, April 1996; 22:285-286

What would you advise for re-treatment of an RK problem? *J Cataract Refract Surg*, Dec 1997; 23:1442-44

Centration of corneal procedures and identification of the steep astigmatic meridian. *J Cataract Refract Surg*, July 1998; 24:876-881

Induced Astigmatism following LASIK for Myopia with a Free Cap. *J Refract Surg* 2000; 16:375-378

A LASIK treatment of complication of incomplete flap. J Cataract Refract Surg 2000; 26:1109-1110

Refractive Surgical Problem, J Cataract Refract Surg 2002; 28:395-396

Refractive Surgical Problem – 27 year old male with risk of diplopia, J Cataract Refract Surg Nov 2004 Issue; 30:11:2245-2454

Consultation Section (cont.):

Refractive Surgical Problem – A 62 year old man had bilateral refractive lens exchange for 20/25 with +8.00 -2.75 x 5 in the right eye and 20/20 with +7.50 -3.25 x 175 in the left eye 1.5 year ago. The outcome is -0.50 -1.50 x 125 in the dominant left eye, and the patient is unsatisfied, J Cataract Refract Surg, Sep 2005 Issue, 31:9:1690

Refractive Surgical Problem – A 44-year-old man has overcorrection after PRK for hyperopia. After CLAPIKS in both eyes and epithelial removal with alcohol in the left eye, visual acuity cannot be improved, especially in the left eye, J Cataract Refract Surg, Nov 2005 Issue, 31:11:2048-2049

Refractive Surgical Problem – 32 year old male who had bilateral LASIK and developed a progressive and relatively quick loss of subjective UCVA, mainly in the left eye, J Cataract Refract Surg, March 2006 Issue, 32:3:382-383

Refractive Surgical Problem – A 55 year old healthy male patient had bilateral radial keratometry (RK) in 1975. Now the patient presents because of a decrease in visual acuity with bilateral cataract and is requesting lens surgery, J Cataract Refract Surg, Jan 2007 Issue, 33:1:8-9

Editorial citations:

From the Editor: Excimer Laser Technology: New options coming to fruition. J Cataract Refract Surg 1997; 23:1429-1430

From the Editors: Format for reporting refractive surgical data. J Cataract Refract Surg 1998; 24:285-287

From the Editor: Reporting astigmatism data. J Cataract Refract Surg 1998; 24:1545

From the Editor: How should we analyse astigmatic data? J Cataract Refract Surg 2001; 27:1-3

From the Editor: Astigmatism analysis: The spectrum of approaches. J Cataract Refract Surg 2006; 32:1977-1978

From the Editor: Reshaping the cornea: Which laser profiles should we use. J Cataract Refract Surg 2008; 34:1225

From the Editor: Impact of citation practices: Beyond journal impact factors. J Cataract Refract Surg 2008; 34:1419-1421

From the Editor: Keratoconus. J Cataract Refract Surg 2012; 38: 927-92

Letter to Editors:

Letter to Editor: Evaluating Astigmatic Results. J Cataract Refract Surg. Nov 1993, 19:6:812

Letter to Editor: Surgically induced astigmatism. Aust/NZ J Ophthal. 1994; 22:217

Reply to Letter to Editor: Vector Analysis. J Cataract Refract Surg. 1994; 20:3:366-367

Letter to Editor: Excimer Laser Keratectomy for Astigmatism after PK. Ophthalmology. Alpins NA. 1996; 12:1985-1986.

Letter to Editor: A re-analysis of astigmatism correction. British J of Ophthal. 2002; 86:832

Letter to Editor: Analyzing refractive data. J Cataract Refract Surg. Feb 2004; 30:291-292

Letter to Editor: Combining wave-front and topography data for excimer laser surgery: The future of customized ablation? J Cataract Refract Surg. Nov 2004; 30:285-286

Letter to Editor: Combining wave-front and topography data. J Cataract Refract Surg. April 2005; 31:646-647

Letter to Editor: Terms Used for the Analysis of Astigmatism. J Refract Surg. June 2006; 22:6:528

Letter to the Editor: Special Articles and Peer Review. J Refract Surg. Feb 2007; 23:2:115

Letter: Vector Analysis with the femtosecond laser. J Cataract Refract Surg. July 2014; 40:1246-1247

Letters to the Editor: Excimer laser correction of Astigmatism: Consistent terminology for better outcomes. J refract Surg. May 2014

Letters: Vector analysis with the femtosecond laser. J Refract Surg. July 2014

Letters: Astigmatism terminology and source references. J Cataract Refract Surg. April 2016

Letters: Topography-modified refraction: adjustment of treated cylinder amount and axis to the topography versus standard clinical refraction in myopic topography-guided LASIK. Dovepress June 2017

Critique of Paper:

Article Critique of Holladay paper (J Cat Ref Surg). 'Analysis of aggregate surgically induced refractive change, prediction error, and intraocular astigmatism'. J Refract Surg. Nov-Dec 2001; 17(6):705-707

Published Articles:

OSN (Domestic USA):

01 Oct 1992	Page 62	(ASSORT) Program can measure surgical
15 Dec 1992	Page 80	Small incision triple procedure for cataract and Glaucoma
01 Jan 1993	Page 41	Single-stitch surgery can increase ATR astigmatism
01 Aug 1993	Page 33	TIA – Know what you are aiming for in astigmatism surgery
15 Aug 1993	Page 43	A new method of Astigmatism analysis
1 Nov 1993	Page 1	PRK Cuts deep into RK Down Under
	Page 126	ISRK Panel: Managing high myopia
15 Jan 1994	Page 44	Target Emmetropia feature: What tupe of cataract surgeon are you?
15 Sep 1994	Page 15	Alpins ASSORT Affords High-tech outcomes Analysis
1 Nov 1994	Page 164	Surgical maneuvers- an excimer laser PRK Technique
1 Dec 1994	Page 43	Adjusting Astigmatism Magnitude to Improve Excimer laser results
1 March 1995	Page 35	Astigmatism Round Table- Managing Astigmatism during cataract surgery
1 July 1995	Page 38	Cataract outcome program proliferate along with managed care
1 Aug 1995	Page 48	Target Emmetropia: incorporating refractive principles for better cataract Surgery results
15 April 1996	Page 42	Software links excimer laser to topography
15 Aug 1996	Page 60	New Multizone- Multipass Technique for PRK
15 Oct 1997		Software computes accurate astigmatic correction nomograms for LASIK, PRK
15 March 1998	Page 17	Corneal topography data enhance astigmatic outcomes
15 May 1999	Page 14	Vector analysis of astigmatism correction: The Alpins Method (<i>1st in series of 5 Articles</i>)
1 June 1999	Page 19	Flattening, Steepening, Torque are crucial Points in astigmatism surgery (<i>2nd in series Of 5 articles</i>)
15 June 1999	Page 44	Corneal versus refractive astigmatism: Integrated analysis (<i>3rd in series of 5 Articles</i>)

1 July 1999	Page 6	The treatment of Irregular astigmatism (<i>4th in series of 5 articles</i>)
15 July 1999	Page 8	Topographic disparity: a useful new measure of irregular astigmatism (<i>5th in series of 5 articles</i>)
1 Aug 2000	Page 1	Is the future of refractive surgery based on Corneal topography or wave-front?
1 Sep 2000	Page 41	Wave-front is showing signs of success, but can it do it alone
15 Oct 2000	Page 48	Supplement Issue 2000 World Almanac: Australian health system copes amid Diverse landscape
15 Jan 2002	Page 1 & Page 63	Presbyopia strategies proliferating Presbyopia technologies include IOL and Scleral approaches
Jan 2002		Refractive surgery: correcting Astigmatism
15 Feb 2002	Page 21	Editorial comment: Consider the vertex distance in refractive surgical procedures
June 2002		Limitations of wave-front are becoming apparent, some say
1 Aug 2002	Page 1	Editorial comment: wave-front gains supporters, skeptics
	Page 31	Some foresee limitations in wave-front technology
1 Oct 2002	Page 38	Software aims to reduce astigmatism after LASIK
1 June 2003	Page 1+5	Barriers to super-vision still remain
1 June 2003	Page 1+ 26	IOL's - tools for micro incision surgery wanted
1 Sep 2003	Page 14	As SARS threat dwindles, lessons linger for medical community
15 Oct 2003	Page 25	Mixing vector, wave-front values improves outcomes
1 Nov 2004	Page 14+15	ESCRS Paris highlights: topography-based PRK in keratoconus
1 Dec 2004	Page 24-26	Resultant astigmatism can be minimized with Inclusion of topography data, surgeon says – 'Vector planning can help surgeons find the Optimal balance between corneal and refractive Measurements'
Feb 2005		Innovation spotlight- 'angles or using combined Vector analysis to treat refractive patients
15 April 2006	Page 40+42	Personalized nomograms 'essential' surgeons say- A personalized nomogram allows greater accuracy In refractive surgery, incorporating many variables That can affect outcomes
1 May 2007	Page 46	Wave-front mixed with topography offers 'ideal Laser treatment'
1 June 2007	Page 11	ASCRS Highlights- refractive keratectomy with Vector planning for keratoconus maintains Outcomes at 10 years
15 June 2007	Page 1	Laser Calculation benefits keratoconus patients

15 June 2007	Page 31	PARK with vector planning for keratoconus maintains 10 year outcomes.
10 Oct 2015	Page 36	CorT an accurate, consistent measure of corneal Astigmatism

**Ocular Surgery News:
International Edition:**

July 1992	Page 34	Improving surgery by analysis (ASSORT)
Sep 1992	Page 36	Single-stitch surgery can increase ATR astigmatism
Sep 1992	Page 42	Triple procedure for cataract and glaucoma
Oct 1993	Page 40	A new method of astigmatism analysis
Nov 1993	Page 1	Patient demand for excimer surpasses RK
Dec 1993	Page 22	TIA- A method for planning and assessing surgery
Oct 1994	Page 25	Paris 94 supplement: Excimer laser surgery Planning Practical Astigmatism analysis for the PRK and AK Surgeon
Sep 1995	Page 40	Surgical maneuvers- incorporating refractive Principles to achieve better cataract surgery results
Dec 1997	Page 10	Software computes accurate astigmatic correction Nomograms for LASIK, PRK
July 1998	Page 17	Corneal topography data enhance astigmatic Outcomes
Aug 1999	Page 13	Vector analysis of astigmatism correction: The Alpins Method
Sep 1999	Page 22	Flattening, steepening and Torque are crucial Points in astigmatism surgery.
	Page 16	Como utilizar el Analisis vectorial para la correccion del Astigmatismo (<i>Spanish edition</i>)
Oct 1999	Page 30	Corneal versus refractive astigmatism: integrated Analysis
May 2000	Page 27	Treating naturally occurring irregular astigmatism
June 2000	Page 22	Topographic disparity is a useful new measure of Irregular astigmatism
Sep 2000	Page 41	Wavefront showing signs of success, but can it do Alone?
Jan 2002		Presbyopia strategies proliferating
Feb 2002	Page 1 & 24	Editorial comment: Consider the vertex distance in Refractive surgical procedures. Presbyopia Technologies include IOL and scleral approaches
June 2002		Limitations of wavefront becoming apparent, Some say
Aug 2002		How wavefront works-a primer
Dec 2002	Page 10	Software aims to reduce astigmatism after LASIK
June 2003	Page 1 & 17	Barriers to super-vision still remain
July 2003	Page 1 & 16	Surgeons await IOLs, tools for microincision

Sep 2003	Page 8	Surgery As SARS threat dwindles, lessons linger for medical Community
Oct 2003		AUSCRS meeting on presentation
Nov 2004	Page 8 & 10	ESCRS Highlights: topography based PRK in Keratoconus
June 2007	Page 6	ASCRS highlights- refractive keratectomy with Vector planning for keratoconus maintains Outcomes at 10 years
Sep 2007	Page 20 & 21	PARK with vector planning for keratoconus results Stable at 10 year follow up
April 2009	Page 1 & 8	Study finds that combined refractive treatment Reduces astigmatism more than wavefront alone
June 2009	Page 17	Ocular residual astigmatism measurement could Salvage 5% of dissatisfied LASIK patients
Jan 2010	Page 1,4 & 5	Australian ophthalmologists oppose cuts in Medicare rebate for cataract surgery
July 2011	Page 16	Perspective- Preoperative OCT a significant step
Feb 2012	Page 18	Perspective- Study: Corneal sensation reduced in LRI's

Ocular Surgery News:

At issue:

June 2000		At issue: Preferred regimen for curing haze for PRK
Aug 2000	Page 30	At issue: is there a place in the future of refractive Surgery for both PRK and LASIK?
Aug 2000	Page 44	At issue: reasons for use of one microkeratome Over any other
Sep 2000	Page 64	At issue: computer related vision problems
Nov 2000		At issue: Preventing infections
Mar 2001		At issue: The effect of discount LASIK
July 2001	Page 52	At issue: Are the doctors seeing a rise in antibiotic Resistance?
Sep 2001	Page 43	At issue: Have custom corneal ablations improved LASIK results?
Nov 2001	Page 80	At issue: Under what circumstances, if any, should Person under age 18 have LASIK
Feb 2002	Page 12	At issue: What do you prefer for LASIK Enhancements, lifting the flap or recutting and Why?
Oct 2002	Page 50	At issue: With the current economic climate in Your country, is it feasible to expand your Practice? If yes, how? If no, why not?
Dec 2002	Page 14	At Issue: What will be the dominant refractive Procedure in 2010
June 2003		At issue: What role do you think wavefront Technology will play in surface ablation Procedures such as PRK and LASEK? (<i>International</i>)

		<i>edition)</i>
Mar 2004	Page 24	At issue: How important is fluidics today for Performing modern phacoemulsification, Including microincision cataract surgery?
April 2004		At issue: For what refractive errors would you Consider refractive lens surgery over excimer Laser procedures such as LASIK, LASEK or PRK
Aug 2004	Page 16	At issue: How important is fluidics today for Performing modern phacoemulsification, including Microincision cataract surgery (<i>international edition</i>)
Feb 2005	Page 19-21	At issue: What is your preferred prophylactic Regimen for cataract surgery? (<i>international edition</i>)
June 2005	Page 25	At issue: For what refractive errors would you consider lens- based surgery over laser- based Procedures?
Aug 2005		At issue: what is maximum age you recommend a Patient to receive PRK?
Dec 2005	Page 7	At issue: What do you think was the biggest news In refractive surgery in 2005 and why?
April 2006	Page 65	At issue: For patients with myopia greater than 7D who desire refractive surgery, what treatment Do you prefer and why? At issue: How long after initial LASIK surgery do You lift the flap and why?
Sep 2006	Page 16	At issue: For patients with myopia greater than 7D Who desire refractive surgery, what treatment do You prefer and why? (<i>International edition</i>)
Sept 2006		At issue: How beneficial is intraoperative Pachymetry and why?
Oct 2006	Page 60	At issue: What is your highest limit for hyperopic Correction in laser refractive surgery and why?
April 2007	Page 20	At issue: Do you recommend the use of omega Fatty acids to treat dry eye? Why or why not?

Ophthalmology Times

Nov 1993	Page 124	Program analyzes refines refractive surgery Technique
March 1994	Page 60	Vector analysis can improve predictability of Astigmatism
Aug 1997		Astigmatic treatment uses refractive, Topographic Data
Nov 1997	Page 14	Refraction optimized by adjusting laser
March 1999	Page 14	PRK more accurate when astigmatism isn't also a Factor
Oct 1999	Page 13	Combining data can yield best astigmatism results
March 2004	Page 42	Integration of vector planning enhances customized ablation outcomes

Biomedical Technology

May 1998 Ophthalmology develops surgery outcomes Software

Borland Connection

Winter 1993 Page 9-11 Top paradox programmer wins trip to US Conference

Cataract and Refractive Surgery Today

2006 78-80 Refractive Procedures for the Keratoconic Patient: An examination of LASIK and PRK, with an emphasis on PARK.

Feb 2014 Page 44-49 What's the big idea

Feb 2015 Page 1-5 Outcome analysis in a clinical setting

May 2015 Page 1-6 Innovative Toric IOL Calculators and how to use Them

Cataract and Refractive Surgery Today (Europe):

Sep 2010 iAssort Provides Astigmatic Analyses using Topography

Eurotimes

Nov 1998 Page 29 An Australian approach to modulating corneal healing in PRK

April 2007 Page 22 Topography and wavefront linkage improves Visual outcomes

April 2007 Page 26 XXIV Congress of the ESCRS, London 2006, Assessing outcomes in refractive surgery

June 2008 Page 50 Practice Management- Doctor, how good are your Results with patients like me?

Sep 2008 Page 14 Maximising astigmatism correction in cataract Surgery

Sep 2010 Refractive and corneal parameters should be used

Oct 2010 Page 8 Utilizing topographers, software tracks

Astigmatism changes to improve nomograms

June 2013 Corneal astigmatism- new method gives more Accurate measurement of astigmatism of the Whole cornea

Nov 2015 Astigmatism Measure- novel parameter Quantifying total corneal astigmatism offers best Match with refractive cylinder

Eyecare technology

June 1994 Page 48 ASSORT- The Statistical Team for your Surgical Practice

Eyeworld

Sep 1997 Page 42 LASIK- Refractive Surgery thought leaders

Dec 1998 Page 17 Symmetry in motion- A look at the Alpains' method For treating irregular astigmatism

Aug 1999 Page 37 Lasers address corneal irregularities

Sep 1999 Page 37 EW Dialogue: Placido v non placido disk video Keratography

March 2000	Page 38	EW Dialogue: Challenging cylinders: Optimizing Astigmatism assessment and treatment
	Page 42	EW Cover Story: The astigmatic armamentarium
	Page 46	EW Cover Story: Optimizing approaches to Astigmatism assesement
May 2000	Page 64	The future of wavefront refraction as a diagnostic Tool
May 2000	Page 70	Perceptions on wavefront technology from refractive leaders
Aug 2001	Page 48	Improving outcomes with personalized LASIK Nomograms
Jan 2002		Refractive corneal irregularity and dry eye?
Feb 2005	Page 56 & 57	Innovation spotlight- angles on using customized vector analysis to treat refractive patients (Maxine Lipner
Oct 2007	Page 40 & 47	The View from Ausstralia
July 2008	Page 11	In the journal- LASIK for myopic astigmatism
March 2014		EW Cover Story: Femtosecond Phaco techniques Operating on the Lasers Edge

Franja Ocular

Sep 1999	Page 35	Correccion quirurguca del astigmatismo: el Metodo de Alpins
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Highlights of Ophthalmology

Issue No 2:	Page 14	Personal Experience in the management of Irregular astigmatism
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Highlights of Ophthalmology- Spanish Edition

Numero 2 2007	Page 14	Experiencia personal en el manejo del Astigmatismo irregular
Numero 2 2014	Page 11	determinacion del astigmatismo topographico corneal

Insight

Aug 1998	Page 23	Ophthalmologist develops new method of Analyzing astigmatism
Nov 2007	Page 6	US FDA adopts Aust-developed laser technique as Improving treatment of astigmatism
Sep 2008	Page 37	Melbourne surgeons technique recognized as improving treatment of astigmatism
July 2009	Page 16	Integrated eye care: how it works in a Metropolitan setting in Victoria

Journal of refractive surgery

Nov 1998	Page 672	ASSORT: Laser capabilities expanded for Astigmatism treatment analysis
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Medical Electronics

Sep 1998 The Alps method: a breakthrough in Astigmatism analysis

Medical Laser report

July 1998 Software program refines astigmatic outcomes

Mivision

Dec 2008 Page 5 Aussie World first: New astigmatism treatment Technique

Feb 2009 Page 16-19 The new frontier for clear vision

Quotations:

Sep 1999 Page 32 Eyeworld: Excimer treatment options for Hyperopic astigmatism

Conferences, podium presentations and participation

July 1989 Foundation member of 500 Club (Iolab Aust.)

Aug 1990 Royal Victorian Eye and Ear Hospital Faculty Member
Phacoemulsification course

March 1991 Advanced anterior segment symposium, Aspen, Colorado
Faculty member

Nov 1991 Melbourne Excimer Laser & Research Group
Panelist: Initial VisX Excimer laser course

Dec 1991 Rock Castle Private Hospital, Sydney
Faculty member: Phacoemulsification course (Alcon)

May 1992 Como Private Hospital, Melbourne
Course Director & Surgeon
"A day of Xcimer Isification surgery" course (Alcon)

July 1992 Melbourne Ophthalmic Alumni meeting
Presenting author:
"Has laser beam 193 RK?"

Nov 1992 RANZCO, annual scientific meeting
Speaker:
"Combined Cataract, IOL and trabeculectomy"
"Single stitch small incision cataract surgery"
"Transverse astigmatic keratotomy and small incision Cataract and implant surgery" &
"Vector analysis formulae for astigmatism"

Feb 1993 Royal Victorian Eye and Ear Hospital

Instructor:

Basic Microsurgical course for new registrars

- May 1993 ASCRS Meeting, Seattle, USA
Speaker
"A new method of analysing vectors for changes in astigmatism"
"Keratometry versus refraction: How to resolve the conflict in astigmatism surgery"
- Faculty member:*
Keratorefractive Debates
Surgical management of astigmatism
- June 1993 Melbourne Ophthalmic Alumni Meeting
Presenting author:
'Surgical treatment of astigmatism: RK v Excimer'
- June 1993 Canadian Rockies Symposium, Banff, Canada
Faculty Member
- July 1993 ISRK meeting, Minneapolis, USA
Speaker:
"Practical astigmatism analysis"
"Planning Excimer laser surgery"
- Aug 1993 Australian Registrars Cataract Surgery Symposium (Alcon)
Faculty member
- Nov 1993 ISRK pre-A.A.O. Meeting, Chicago
Speaker:
Astigmatism correction with the Excimer laser
Surgically Induced Astigmatism with the Excimer laser
- AAO, New York
Invited Speaker:
"Keratorefractive Debates: RK v PRK"
- Instructor:*
"Astigmatism Wet Lab"
"Advanced Phacoemulsification Technique Course"
- April 1994 ASCRS Meeting, Boston, USA
Speaker:
"Adjustment of Astigmatism Magnitude Excimer Laser Surgery"
"Planning Refractive Cataract Surgery"

“Keratorefractive Debates”
“VisX Protocol Course”

May 1994 Joint Meeting French Implant Society and Ocular Surgery News Int,
Edn. Paris, France

Faculty member and invited speaker:
“Excimer Laser Surgery Planning”
“Practical Astigmatism Analysis for the AK & PRK Surgeon”

June 1994 International Congress Ophthalmology, Toronto, Canada

Invited faculty member
Discussion: for Dr Lindstrom’s paper on:
Astigmatism in Cataract Surgery

Speaker:
“Excimer Laser Surgery”

Canadian Rockies Symposium, Banff, Canada

Invited faculty member

Moderator:
PRK Session

Speaker:
“Results of Excimer Laser Surgery”
“Planning of Refractive Cataract Surgery”

July 1994 Melbourne Ophthalmic Alumni Club Meeting

Presenting Author with Prof Hugh Taylor
“Astigmatism Correction with the Excimer Laser”

Nov 1994 A.A.O. & ASCRS Joint Symposium, San Francisco, USA

Invited Speaker:
“Surgical Correction of Astigmatism”

Invited faculty member:
Refractive Keratoplasty Debates
The Excimer Laser 1995 – Evolution or a Revolution
for Ophthalmology?

Invited Instructor:
Advanced Phacoemulsification Course

April 1995 ASCRS & AAO Joint Symposium, San Diego, USA

Presenter:
“Astigmatism Correction with the Excimer Laser”
“Vector Analysis Formulas for Cataract Surgery”

Moderator of Scientific Session:
Incisional Techniques – Cataract Surgery

- June 1995 Melbourne Ophthalmic Alumni Meeting
Presenter:
“Planning and Analysis of Refractive Cataract Surgery”
- Aug 1995 Current Concepts in Ophthalmology, Hayman Island, Queensland
Invited faculty speaker:
“Astigmatism surgery and analysis”
- Nov 1995 ISRS pre-AAO Meeting, Atlanta, USA
Presenter:
“Refractive Cataract Surgery Planning”
- AAO Meeting, Atlanta, USA
Invited Speaker:
“Keratorefractive Debates: PRK – The International Experience”
- Invited Speaker:*
“The Lasers of Refractive Surgery – Evolution, Science and Economics”
- Presenter/Wet Lab Instructor:*
Surgical Correction of Astigmatism
- June 1996 ASCRS Meeting, Seattle, USA
Presenter:
“Refraction versus Optimisation for Treatment of Astigmatism by Excimer Laser”
“New Method of Targeting Vectors for the Optimal Treatment of Astigmatism”
- July 1996 Melbourne Ophthalmic Alumni Meeting
Presenter:
“Multizone Photorefractive Keratectomy”
- Oct 1996 ISRS pre-AAO Meeting, Chicago USA
Presenter:
“Optimization versus Refraction combined with New Method of Targeting Vectors for the Optimal Treatment of Astigmatism”

“Vector Analysis Formulae for Cataract Surgery”
“PRK Multipass-Multizone for Treatment of
Astigmatism”

AAO Meeting, Chicago USA

Presenter:

“Complications of Laser Refractive Surgery
management and prevention”

Refractive Keratoplasty Debates

Skills Transfer Program and Wet Lab

Mastel Symposium

Presenter:

“Incision Placement for Refractive Cataract Surgery”

“Optimizing Excimer Laser Surgery for all Lasers”

Nov 1996

ICIMRK Meeting, Perth, Australia

Session Moderator & Presenter:

“Multizone Photorefractive Keratectomy”

“Optimisation versus Refraction”

“Vector Analysis Formulae for Cataract Surgery”

April 1997

ASCRS Meeting, Boston USA

Session Moderator & Presenter:

“Optimization versus Refraction to Treat Astigmatism
by using The Excimer Laser”

Presenter:

“Treatment with the NIDEK EC5000 using ASSORT
software”

July 1997

Melbourne Ophthalmic Alumni Meeting

Presenter:

“Treatment with the NIDEK EC5000 using modified
Algorithms And multizone technique”

Aug 1997

Melbourne Meeting of Optometrists

Royal Victorian Eye & Ear Hospital -Refractive Surgery Correction

Presenter:

Incisional Refractive Surgery – RK/Astigmatic
Keratotomy

Nov 1997

Royal Australian College of Ophthalmologists

Annual Scientific Meeting, Sydney

Presenter:

Multizone photorefractive keratectomy

April 1998

ASCRS Meeting, San Diego, USA

Session Moderator:

Excimer Laser – PARK & LASIK Surgery

- Presenter:*
 “Treatment of Irregular Astigmatism”
 “Vector Analysis of Astigmatism by Flattening,
 Steepening & Torque”
- Sep 1998 ESCRS Meeting, Nice, France
Presenter:
 Multizone Photorefractive Keratectomy
- Chairperson of Scientific Session & Presenter:*
 “Vector Analysis of Astigmatism by Flattening,
 Steepening & Torque”
- Member & Presenter:*
 Inaugural Meeting – VisX Global Advisors Forum
- Nov 2008 AAO/ISRS Meeting, New Orleans, USA
Moderator & Presenter: Astigmatism Management
 “Balancing Refractive and Corneal Values in LASIK and
 PRK Surgery Planning”
- Presenter:*
 “Refractive versus Corneal Changes after PRK for
 Astigmatism”
- April 1999 ASCRS Meeting, Seattle, USA
Session Moderator & Presenter:
 “Treatment of Mixed Astigmatism by LASIK with the
 VisX STAR”
- Presenter:*
 “Improving Best Spectacle Corrected Acuity without
 Changing Spectacles”
 “Which Numbers are Missing from your
 Topographer?”
- Course presentation:*
 “The optimization of astigmatism treatment when
 performing LASIK and PRK”
- Course Moderator:*
 “Astigmatism Treatment and Analysis for the
 Cataract and Refractive Surgeon”
- Sep 1999 ESCRS Meeting, Vienna
Course Moderator:
 Astigmatic Analysis for the Cataract & Refractive
 Surgeon

Presenter:

“Surgery to regularize the irregular cornea and improve visual performance by LASIK or PRK technique”

“Which numbers are missing from your topographer?”

“Second Annual Meeting of VisX Global Advisors Forum”

Nov 1999

Royal Australian College of Ophthalmologists
Annual Scientific Meeting, Melbourne

Presenter:

Refractive versus Corneal Changes after PRK for Astigmatism

Faculty: Cataract Surgery Course

Astigmatism: Control/Modification

Course Faculty: LASIK Complications Regression and Re-Treatment

May 2000

ASCRS Meeting, Boston, USA

Course Faculty – 2nd International Symposium on the Surgical Correction of Astigmatism.

“An effective combined topographic and refractive link to LASIK Surgery”

Course Faculty & Co-Presenter:

“Astigmatism treatment and analysis for the cataract and Refractive surgeon”

Presenter:

“Vector planning for LASIK surgery: Integrating topography and wavefront analysis treatment modalities”

Highlights of the ASCRS 2000 Annual Meeting
Program: Wavefront Analysis/Tomography – Vector Planning for LASIK Surgery

“Integrating topography and wavefront analysis treatment modalities”

Boston: Ophthalmology Interactive; 2000 (CD-ROM)

Nov 2000

RANZCO: Scientific Meeting, Sydney

Chairman & Presenter:

Session: Refractive Surgery II

“Vector Planning for LASIK Surgery: Integrating topography and wavefront analysis treatment

modalities”

Co-Presenter:

Symposium: The Changing Face of Cataract Surgery
“Minimising Induced Astigmatism following Cataract Surgery”

Feb 2001 Third Biennial IIC Meeting, Cape Town, South Africa

Keynote Speaker:

“Advances in laser Technology”

Presenter:

“LASIK 1 – Refractive diagnostics and surgical planning

Course Participant:

Biometry and advanced IOL calculations

April 2001 ASCRS Meeting, San Diego, USA

Session Co-Moderator:

Myopia/Hyperopia/Astigmatism

Presenter:

“LASIK Astigmatism Analysis by the Alpains method”
“Achieving LASIK Super Vision by Minimizing and Regularizing Topographic and Wavefront Refraction Astigmatism”

Course Presenter:

Vector Planning, Practical Astigmatism Analysis and LASIK Nomogram Development for the Cataract and Refractive Surgeon

Course Faculty – 3rd International Symposium on the Surgical Correction of Astigmatism Incisional, Photoablative and Toric Pseudophakic and Phakic Intraocular Lenses.

Presenter:

“An effective combined topographic and refractive link to LASIK surgery”

Sep 2001 ESCRS Meeting, Amsterdam, Holland

Course Presentation:

LASIK Astigmatism Analysis by the Alpains Method
“Achieving LASIK Supervision by minimising and regularizing topographic and wavefront

refraction astigmatism”

Invited Symposium:

Management of Astigmatism

How to improve visual performance by LASIK and PRK

Faculty Symposium

Nov 2001

Royal Australian College of Ophthalmologists

Presenter:

Wavefront analysis and vector planning

“How should we be using these modalities?”

April 2002

ICO, Sydney

Aberrometry Wavefront Measurement

Presenter:

Wavefront analysis, vector planning – how we should be using these

Refractive Aspects of Cataract Surgery

Moderator & Presenter:

A comparison of incision induced astigmatism between forceps and injector insertion of foldable implants

ASCRS, Philadelphia

Presenter- Paper:

Efficacy of LASIK Myopic Astigmatism Correction with VISX Star Laser

Course presenter:

Vector Planning, Practical Astigmatism Analysis, and LASIK Nomogram Development for the Cataract and Refractive Surgeon

Sep 2002

ESCRS Meeting, Nice, France

Presenter:

Session IV – Refractive Surgery New Techniques II

“Efficacy of LASIK hyperopic astigmatic correction with VisX

STAR Laser”

Session I – Keratorefractive Surgery or myopia IV

Co-Moderator with Dr Thomas Kohnen

“Wavefront analysis, vector planning – How should they be used together?”

Course Presenter:

Vector Planning, practical astigmatism analysis and LASIK nomogram development for the cataract and refractive surgeon

- Nov 2002 AUSCRS Meeting, Canberra
Session Moderator and Presenter:
Wavefront analysis, vector planning- How we should be using these modalities.
- AMO Meeting, Noosa
Presenter:
“LASIK and Dry Eye New Approaches to Patient Management” “Technical aspect of flap creation with the Amadeus Microkeratome”
- April 2003 ASCRS Meeting, San Francisco, USA
Presenter – Paper:
“Wavefront Analysis and Vector Planning: How to Use Them Together”
- Course Presenter:*
“Vector Planning, Practical Astigmatism and LASIK nomogram development for the cataract refractive surgeon”
“Making the most of wavefront and vector planning LASIK. Practical and theoretical aspects of irregular astigmatism management”
- July 2003 AUSCRS, Port Douglas
Presenter, Paper:
Treatment of astigmatism in keratoconus using ASSORT Vector Planning
- 40th anniversary meeting, Melbourne University
Department of Ophthalmology
- Invited Speaker*
Cataract Surgery- What we know and what we need to know
- Aug 2003 Alcon Meeting, Punta Mita, Mexico
Invited sponsored registrant
- Feb 2004 AMO Meeting, Noosa
Technical aspects of flap creation with the Amadeus microkeratome
- Sept 2004 ESCRS Congress, Paris France
Course Presenter:
Vector planning, practical astigmatism analysis and

LASIK Nomogram Development for cataract and refractive surgeon

Presenter- Paper:

Customized PARK treatment of keratoconus using combined Topographic and refractive data

Session moderator:

“Keratorefractive surgery outcomes- Myopia 1”

*61 Ocular surgery news supersite 29 September
Paper listed as “Top Stories” of ESCRS Meeting”*

- Nov 2004 RANZCO, Melbourne Australia
Presenter- Paper:
PARK treatment of Keratoconus using corneal and refractive Astigmatism measurements
- Mar 2005 ALCON Seminar: Optimizing Cataract Surgery Outcomes (OCSO)
Sydney and Brisbane, Australia
Invited Speaker:
Infinity™ Vision system: Advantages and Techniques
- Sept 2005 ESCRS Meeting: Lisbon, Portugal
Course Presenter:
“Making the most of wavefront and vector planning, LASIK, Practical and theoretical aspects of irregular astigmatism management”
“Vector planning, practical astigmatism analysis and LASIK Nomogram development for the cataract and refractive surgeon”
- Nov 2005 ALCON MaSIS Meeting, Malaysia
Invited speaker:
“How to do a good biometry for every patient- Planning and analysis of astigmatism management or refractive Cataract”
“IOL Selection for post refractive laser patients- advantage of refractive IOLs”
“Refining Phaco techniques for refractive cataract surgery”
“Understanding vector planning analysis practical astigmatism analysis”
- Feb 2006 ESCRS Winter Refractive surgery, Monaco Monte Carlo
Invited Speaker:
“Combining wavefront and topography data for optimizing laser surgery”

Presenter- Invited case presentation:
Customized PARK treatment of mild keratoconus
using combined topographic and refractive data

World Ophthalmology Congress, Sao Paulo Brazil

Invited speaker:

“When cataract surgery is indicated where good
visual acuity prevails”

“Upgrading wavefront technology by combining
topography parameters”

“Incisions placement and astigmatism management
in cataract surgery”

Chair Person:

Cataract Surgery and IOL Implantation in complex
situations

Mar 2006

ASCRS Meeting, San Francisco USA

Course Presenter:

Managing regular and irregular astigmatism with
conventional and wavefront techniques in cataract
and refractive surgery

Sep 2006

ESCRS Meeting, London UK

Course Presenter:

Managing regular and irregular astigmatism with
conventional and wavefront techniques in cataract
and refractive surgery

Session Moderator:

Keratorefractive surgery outcomes- Myopia

Presenter- paper:

Clinical outcomes study of LASIK using combined
wavefront and topography value myopia and
astigmatism

Symposium presenter:

Assessing outcomes in refractive surgery. “Which
outcomes to measure”

Oct 2006

Eye Advance, Mumbai India

*Recipient of the distinguished service in Gold Medal in
Ophthalmology*

Invited presenter & guest lecture:

Refraining outcomes in refractive surgery Advantages
or refractive IOLs

- Nov 2006 RANZCO, Sydney Australia
Chair Person:
Contemporary cataract surgery: six steps of evidence
and experience- based decision making

Presenter:
“PARK treatment of mild keratoconus”

Presenter- Speaker Corner:
“Using Alcon infinite for small incision ultrasleeve for
coaxial small Incision surgery”

Symposium presenter:
Critical considerations in cotemporary cataract
surgery and refractive surgery- The ABC of accurate
biometry and current formulae
- Mar 2007 ASCRS, San Diego USA
Course Presenter:
Managing regular and irregular astigmatism with
conventional and wavefront techniques in cataract
surgery in refractive surgery

Presenter- Paper:
Customized PARK treatment of myopia and
astigmatism in Form Fruste and mild keratoconus
using combined topographic and refractive data.

Panellist:
Keratorefractive: New Devices
- Sep 2007 ESCRS, Stockholm Sweden
Course Presenter:
Managing regular and irregular astigmatism with
conventional and wavefront techniques in cataract
and refractive surgery

Presenter- Paper:
“Clinical outcomes of LASIK using wavefront alone
versus wavefront plus vector planning treatment for
myopia and astigmatism”
“Customized PARK treatment of myopia nas
astigmatism in Forme Fruste and keratoconus using
combined topographic and refractive data”

- Nov 2007 RANZCO, Perth Australia
- Course Presenter*
Critical considerations in contemporary cataract surgery – dealing with poor wound construction and floppy iris
- Presenter- Paper*
Wavefront versus wavefront and vector planning in treatment of myopia and astigmatism
- Symposium presenter:*
Contemporary issues in refractive surgery- combines wavefront- topography ablations and the optimal ablation profile
- Feb 2008 ESCRS, Barcelona Spain
- Session moderator:*
Laser refractive surgery
- Presenter-Paper:*
“What does true integration of topographic and refractive wavefront parameters in LASIK involve”
“Selection criteria for patients’ eligibility for PARK vector planning treatment of myopia and astigmatism forme fruste and mild keratoconus
- Invited Symposium Speaker:*
Focus session- Controversies in how to correct astigmatism in cataract surgery
- Presenter:*
Calculation of astigmatism at the corneal plane is now more reliable.
- April 2008 ASCRS, Chicago USA
- Course presenter:*
Managing astigmatism with Toric IOLs and LRIs in cataract and refractive surgery
- Presenter – Paper:*
“Selection Criteria for Patient Eligibility for PARK Vector Planning Treatment of Myopia and Astigmatism in Forme Fruste and Mild Keratoconus”
- Session Moderator:*
Cornea Keratoplasty; New Techniques
- Presenter – Paper:*

Considerations for Effective Integration of
Topographic and Refractive Wavefront Parameters in
LASIK

- April 2008 Bellvue Hopsital, New York USA
Presenter:
Combining topography and refractive data for the
treatment of keratoconus and wavefront guided
patients

Understanding astigmatism analysis and treatment in
cataract and refractive surgery
- June 2008 World Ophthalmology Congress, Hong Kong
Invited Speaker:
“Astigmatism Management in RCS- LRI’s and their
Refinement”
“Does Vector Planning render PARK safe in
Keratoconus?”
“Combining Preoperative Topography and Refractive
Data with Vector Planning”
“On Axis Incisions and Opposite (single) LRIs for
Astigmatism Reduction”

Session Chair:
“Astigmatism management in cataract surgery
Wavefront VS optimized aspheric VS topo-
refractive combined, which to choose?”
- Nov 2008 RANZCO, Melbourne Australia
Course Convener:
Critical Considerations in Contemporary Cataract
Surgery – Evidence or Experience-Based Practice

Presenter:
“Dealing with poor wound construction and induced
astigmatism”
“Integration of Topographic and Refractive
Wavefront Parameters”
“Astigmatism Management in Refractive Cataract
Surgery”
- March 2009 Salt Lake City, Moran University
Invited Speaker:
New horizons in the treatment and analysis of
astigmatism
- April 2009 ASCRS, San Francisco USA

Course Presenter:
Managing Astigmatism with Toric IOL's and LRI's in
Cataract and Refractive Surgery

Presenter - Paper:
Managing Patients with Mismatched Corneal and
Refractive Parameters when Treating Astigmatism

Session Moderator:
Introcular Surgery, Toric IOLs

Sep 2009

ESCRS, Barcelona Spain

Invited Speaker:
Astigmatism Analysis

Course presenter:
Managing Astigmatism with Toric Implants and LRI's
in Cataract and Refractive Surgery

Presenter:
What does a true integration of topographic and
refractive wavefront parameters in excimer laser
surgery involve

Nov 2009

RANZCO, Brisbane Australia

Presenter- Paper:

“Managing Patients with Mismatched Corneal
and Refractive Parameters when Treating
Astigmatism”

“Toric IOL techniques and what to do when too
much cylinder is left over”

“Techniques for calculating IOL power in cases of
prior myopic excimer laser”

April 2010

ASCRS, Boston USA

Course presenter:

Managing Astigmatism with Toric Implants and LRI's
in Cataract and Refractive Surgery

Presenter- Paper:
Vectorial analysis of astigmatism utilizing Corneal
Topography parameters and a newly integrated
software module

Sep 2010

ESCRS, Paris

Invited Speaker:
Astigmatism Symposium

Course presenter:
Managing Astigmatism with Toric Implants and LRI's
in Cataract and Refractive Surgery

Presenter- Paper:
Vectorial analysis of astigmatism utilizing Corneal
Topography parameters and a newly integrated
software module

Session Moderator:
Laser Surgery

Nov 2010 RANZCO, Adelaide Australia
Invited Speaker Council Lecture

March 2011 ASCRS, San Diego USA
Course Presentation:
Managing Astigmatism with Toric IOLs and LRIs in
Cataract and Refractive Surgery

Paper Presentation:
Assessment of topographic semi- meridian
parameters to determine corneal astigmatism
& irregularity

Session Moderator: Intraocular Surgery Astigmatism
Management

Sep 2011 ESCRS Vienna, Austria
Course Presentation:
Managing & Analysing corneal astigmatism, LRIs
& Toric implants in Cataract & Refractive surgery

Paper Presentation:
Parameters for overall corneal astigmatism and
irregularity using topographic semi meridian value

Nov 2011 RANZCO, Canberra Australia
Paper Presentation:
Evaluating the ocular residual astigmatism (ORA) of
patients when treating astigmatism

Chair:
Cataract/Refractive surgery session

Jan 2012 Hawaiian Eye, Maui
Presenter:

“The Essentials of Toric and LRI Planning in Refractive Cataract Surgery”
“Ocular Residual Astigmatism (ORA)- An important Preoperative Parameter for Excimer Laser Surgery”

April 2012

ASCRS, Chicago USA

Course Presentation:

“Managing Astigmatism with & Toric Implants and LRI’s in Cataract Refractive Surgery”

Presenter-Paper:

“Method of Determining Topographic corneal Astigmatism using Multiple Diameter Rings CorT

Panel Moderator:

“Intraocular Surgery Toric IOLs”

Sep 2012

ESCRS Milan, Italy

Course Presentation:

Managing and analysing corneal astigmatism, LRI's and toric implants in cataract and refractive surgery.

Paper Presentation:

Corneal topographic astigmatism (corT) - a measure that correlates with manifest refractive cylinder

Oct 2012

NVC Optometrist Information Seminar, Geelong

Speaker:

“Laser & Cataract Surgery – an update”

Nov 2012

OIS Chicago, USA

Ophthalmology innovation Summit

AAO Chicago, USA

Paper presentation:

"A measure of corneal astigmatism that corresponds to manifest refractive cylinder corneal topographic astigmatism (CorT)"

Moderator:

"Innovations in Refractive Surgery

RANZCO Melbourne, Australia

Rapid Fire Oral Presentation:

"An alternative measure of corneal astigmatism that corresponds to manifest refractive cylinder – corneal topographic astigmatism (CorT)"

Chair:

Cataract/Refractive Surgery Rapid Fire session

Melbourne University Optometry Student Dinner
"Co-managing the laser and cataract refractive patient"

Feb 2013

Aspen Corneal Society, Aspen, Colorado
Aspen Corneal Society Invited faculty

Presenter:

"A new parameter to quantify corneal astigmatism corT"

"Understanding refractive surprises after toric IOL implant"

Aspen ACOS Dulaney meeting

Invited speaker & faculty member: "Astigmatism Correction: Better on the Cornea or Implant?"

Panel Participation:

IOL Power selection and calculations for cataract surgery

March 2013

NSW RANZCO , Sydney Australia

Invited speaker

Course presentation:

"Perfecting techniques in cataract surgery"

July 2013

RVEEH registrar lecture on astigmatism and refractive surgery

Oct 2013

ESCRS, Amsterdam, Netherlands

Course presentation:

"Toric IOLs and LRIs: Planning, Nomograms, and Enhancements'.

Paper presentation:

'Corneal Topographic Astigmatism: New Topography Measure'

"Understanding and correcting for Toric IOL refractive

surprises”

Chairperson:

Assessment of Astigmatism

NewVision Clinics Optometrist Information Seminar, Geelong

Speaker:

“Corneal Cross Linking”

Nov 2013

RANZCO Hobart, Tasmania

Accepted as an oral presentation in the ‘Best Paper Presentations’-

“Corneal topographic astigmatism (CorT) a better measure of corneal astigmatism that corresponds to manifest refractive cylinder”

Paper Presentation:

“Selecting the most accurate toric IOL and correcting for refractive surprises”

Chairperson - Rapid Fire:

Cataract & Refractive Surgery

AAO & ISRS New Orleans, USA

ISRS session moderator - Breakfast With the Experts:

“Pearls of correction of astigmatism during cataract surgery!”

Paper Presentation:

“Corneal topographic astigmatism (CorT) a better measure of corneal astigmatism that corresponds to manifest refractive cylinder”

“Selecting the most accurate toric IOL and correcting for refractive surprises”

Moderator:

ISRS Breakfast with the experts.

Melbourne University Optometry Student Dinner

“Co-managing the laser and cataract refractive patient”

Feb 2014

NewVision Clinics Optometrist Information Seminar,
Warrnambool & Tasmania

Speaker:

“Co-managing the Laser Refractive Patient: The Latest”

- April 2014 Novartis Information Seminar
 NewVision Clinics, Windsor
Speaker:
 "The Surgical Correction of Astigmatism"
- ASCRS Boston, USA
Presenter- Paper:
 "Corneal coupling: Importance in incisional and
 ablative procedures"
- Moderator Paper session:*
 "Intraocular Surgery Toric IOL"
- Course Presentation:*
 "Toric IOLs and LRI's" Planning, Nomograms and
 enhancements"
- Sep 2014 ESCRS London, UK
Chairperson:
 "Challenges of Astigmatism Correction"
- Course Presentation:*
 "Toric IOLs and LRIs: planning, nomograms and
 correcting refractive surprises"
- Paper Presentation:*
 "Corneal topographic astigmatism (CorT) and total
 corneal power"
- University of Melbourne, inaugural Doctor of Optometry Student
 Conference
Invited speaker:
 "LASIK Surgery: Anterior Eye Requirements"
- Oct 2014 OIS Chicago, USA
 Technology lecture
- ISRS, Chicago, USA Subspecialty day:
Paper presentation:
 "Corneal Coupling: It's Importance in Incisional and
 Ablative Procedures"
- AAO Chicago, USA
Paper presentation:
 "Corneal Coupling: It's Importance in Incisional

and Ablative Procedures”

RANZCO Brisbane, Australia

Rapid Fire Presentation:

“Corneal Coupling - its importance in incisional and ablative procedures

“Corneal topographic astigmatism (CorT) and total corneal power”

Chairperson Rapid Fire Presentation:

Cataract

Course presentation:

Intraoperative IOL misalignment and postoperative surprises– potential toricity torment.

Nov 2014

Novartis Optometrist Seminar
NewVision Clinics, East Melbourne

Speaker:

“The Surgical Correction of Astigmatism”

Melbourne University Optometry Student Dinner

“Co-managing the laser and cataract refractive patient”

March 2015

NewVision Clinics Optometrist Information Seminar, Geelong

Speaker:

“Refractive Outcomes of Laser Surgery”

April 2015

ASCRS San Diego, USA

Paper presentation:

“Corneal Coupling—Importance in Incisional and Ablative Procedures”

“Corneal Topographic Astigmatism and Total Corneal Power”

Course Presentation:

“Toric IOLs, LRIs, and Corneal Coupling: Planning, Nomograms, and Correcting Refractive Surprises”

Panellist Paper session:

Cataract Toric IOL’

July 2015

Novartis Optometrist Seminar
NewVision Clinics, East Melbourne

Speaker:

“Precision, Speed and 7D Tracking. What does it mean for Refractive Laser Patients?”

- Aug 2015 NewVision Clinics Optometrist Information Seminar, Geelong
Speaker:
“Precision, Speed and 7D Tracking. What does it mean for Refractive Laser Patients?”
- ESCRS Barcelona, Spain
Paper Presentation:
‘Corneal topographic astigmatism (CorT) and total corneal power’
- Chairperson:*
“Corneal Astigmatism Assessment Surgery Equipment”
- Course Presentation:*
“The surgical correction of astigmatism using toric IOLs, femto-LRIs and excimer lasers with corneal topographic astigmatism (CorT)”
- Oct 2015 NewVision Clinics Optometrist Information Seminar, Traralgon
Speaker:
“Co-Managing the Refractive Laser Patient”
- Nov 2015 RANZCO Wellington, New Zealand
Rapid Fire Session: Cataract
Cataract Surprises after Toric IOL implantation
- Rapid Fire- Refractive*
Mixed Astigmatism in Refractive Surgery
Intraoperative Alignment
- Melbourne University Optometry Student Dinner
“Co-managing the laser and cataract refractive patient”
- Feb 2016 NewVision Clinics Optometrist Information Seminar, Warrnambool
Speaker:
“Outcomes using the Schwind1050RS”
- AECOS, Aspen
Grand Rounds III: Premium IOL Challenges
Panellist
- April 2016 ESASO Milan, Italy
Presenter:
“Using corneal topographic astigmatism (CorT) in

toric IOL and LRI procedures”
“Treating corneal astigmatism by optimally combining corneal and refractive parameters”
The basic principles of a vectorial outcome analysis-
for corneal and refractive results

Chair:

Session: Astigmatism: Correction on the Cornea

May 2016

ASCRS New Orleans, USA

Paper session:

Mixed Astigmatism and Corneal Coupling in
Refractive Laser Surgery Presenting Author

Instructor-Course:

Toric IOLs and Femtosecond Laser LRIs; Planning,
Using the Corneal Topographic Astigmatism
Parameter, and What to Do with Refractive Surprises

Paper Session:

Corneal Topographic Astigmatism and Its Importance
in Toric IOL Calculators Presenting Author

Como Private Hospital GP information Night, Melbourne

Invited Speaker:

“Laser and Lens- Correction of refractory problems”

June 2016

Novartis Optometrist Seminar
NewVision Clinics, Cheltenham

Speaker:

“Updates in the Latest Technology in Laser Vision
Correction”

July 2016

IIRSI Chennai India

Invited Speaker:

“The Tools we have for understanding and correcting
for Toric IOL surprises”

“Toric and LRI Pearls for correction of astigmatism
during cataract surgery”

“Corneal coupling for incisional and ablative
procedures”

NewVision Clinics Optometrist Information Seminar, Geelong

Speaker:

“Astigmatism – The last Frontier”

Sep 2016

EuCornea Copenhagen, Denmark

Invited Speaker:

Surgically Induced Astigmatism and Flattening Effect
for cataract surgery

ESCRS Copenhagen, Denmark

Invited Chair:

Pseudophakic IOLs: Toric

Presenter-paper:

Corneal topographic astigmatism (CorT) and its
importance in toric IOL planning

Course presenter:

Toric IOL's and femto-LRI's: Planning Process and
what to do with Refractive Surprises

Nov 2016

RANZCO Melbourne, Australia

Presenter:

"Corneal topographic astigmatism (CorT)- an
accurate measure of corneal astigmatism for toric
IOLs and refractive treatments"

"Optimising mixed astigmatism refractive treatments
using corneal coupling"

Course Presenter:

Keep your cool - dealing with common cataract
surgery problems without anxiety

Course Instructor:

What I do different in refractive laser surgery than
manifest refractive spherocylinder treatment

Mar 2017

IIIC Argentina, South America

Speaker:

Intraocular Lenses Session

"Toric implant calculators and their features. How to
incorporate measured Total corneal power"

Speaker:

My Special Secret to Making a Good Procedure Even
Better

"Improve visual results in Laser Vision correction- Vector
Planning"

May 2017

ASCRS Los Angeles, USA

Presenting Author

LASIK Outcomes Comparing Vector Planning to Manifest
Refraction for the Treatment of Myopic Astigmatism

Presenting Author

Session, Measured Total Corneal Power for Toric IOL
Calculations Using the 3 Different Systems

Moderator
3D Multifocal IOLs, EDOF IOLs

Instructor
Toric IOL's and Femtosecond Laser LRI's: Planning, Using
The Corneal Topographic Astigmatism Parameter, and
What to Do with Refractive Surprises

Oct 2017 ESCRS Lisbon, Portugal
Co-Moderator
LASIK Outcomes and Refinements

Nov 2017 RANZCO Perth, Australia
Invited Speaker
Gregg Lecture

TROKEL AWARD NOMINATION 1994

Noel Alpins practices in suburban Melbourne principally in cataract and refractive surgery in private group practice. He commenced refractive surgery when he started performing radial keratotomy in 1984 and made his first presentation on astigmatism at the Australian College Meeting in Melbourne in 1986.

Since 1991, Noel has been a leading member of the Melbourne Excimer Laser and Research Group at Melbourne University, and had an active involvement in establishing the protocol for treatment with the VisX 20/20 laser in Melbourne, prior to the commencement of Excimer laser surgery in November 1991.

In June 1992 when multizone elliptical treatment surgery was introduced, Noel was instrumental in developing the treatment paradigms for the multizone distribution of spherical refractive error, as well as the astigmatism zonal distribution employed by our Group.

Noel has developed an outcomes analysis software program, a comprehensive eye surgery analysis called the Alpins Statistical System for Ophthalmic Refractive-Surgery Techniques (ASSORT). This program won the 1993 Borland Paradox Application Language programming contest. A very favourable, independent evaluation of the usefulness and content of the software program has been published in the ophthalmic press.

Noel has developed a new method of treating and analysing astigmatism that developed the concept of Target Induced Astigmatism (TIA) which incorporates Topography and Refraction into the surgical plan and analysis of Excimer laser surgery. Using this vector analysis method to analyse the results from the Melbourne group in February 1993 he was the first to quantify the trend of under-correction of magnitude of astigmatism, which enabled the adjustment factor of 1.2 to be utilised in Melbourne from April 1993. Other centres followed Melbourne's lead that resulted from Noel's analysis. He presented the results of this adjustment at the ASCRS Symposium in Boston in 1994.

Noel quantified the surgically induced astigmatism with PRK (spherical) by topography and refraction, and presented this with Melbourne's PARK results at the ISRK Symposium prior to the AAO in Chicago in 1993 and also in Minneapolis in July 1993.

The analysis which he presented demonstrated that the failure to achieve the axis of the applied treatment (the angle between the SIA and TIA) is a major factor in our failure to achieve total success in the treatment of astigmatism.

Noel, using his method, demonstrated differences in the effectiveness between the elliptical and sequential techniques when utilising the VisX 20/20 laser in Melbourne, and presented the results at the International Congress of Ophthalmology in Toronto as an invited faculty member at the Canadian Rockies Symposium in Banff, and acted as co-moderator of the session on photorefractive keratectomy.

Noel is currently co-author on a paper for publication encompassing all the above aspects of non-incisional refractive surgery. He has already had published scientific papers in the Journal of Cataract and Refractive Surgery and Archives of Ophthalmology. He has written extensively for the ophthalmic information journals (Ocular Surgery News, Ophthalmology Times and EyeCare Technology) and was recently appointed a member of the Medical Editorial Board of the latter publication.

Noel was invited to speak as a faculty member in Paris (May 1994) at the French Implant Society and Ocular Surgery News Symposium and presented his and the Group's experiences with astigmatism surgery in addition to his own developed concepts. Noel was also an invited faculty member at the ASCRS Symposium prior to the AAO meeting in San Francisco, and gave two presentations on understanding astigmatism and a third on its practical application to Excimer laser surgery. He has been a course faculty member on Kerato-Refractive debates at both ASCRS and AAO these past two years, and participates as an instructor at both Astigmatic Keratotomy and Phacoemulsification courses.

Noel felt very honoured and privileged to have his work on astigmatism acknowledged by the invitation he received to participate as a speaker at the ASCRS/AAO Symposium on Non-incisional Refractive Surgery at the recent Academy meeting in San Francisco.

Noel's innovative work has made an outstanding contribution to Excimer Laser Surgery by the determination of the optimal treatment of astigmatism addressing both pre-operative values of astigmatism - topographic and refractive. The measured introduction of topography into the surgical plan enables the targeting of reduced corneal astigmatism and optimising the astigmatic result for each individual eye.

Noel has had a commitment to the achievement of excellence in refractive outcomes. This goal has been demonstrated by the considerable commitment of his own time in determining the astigmatic outcomes of our Group, and the expenditure of his own resources in financially supporting the collection, evaluation and analysis of the Group's data.

COUNTRY	APPLICATION NO.	PATENT NO.	FILING DATE	ISSUE DATE	TITLE
PCT	PCT/AU93/00090		04/03/93		METHOD OF ANALYSING ASTIGMATISM AND APPARATUS FOR PERFORMING CORNEAL SURGERY
Australia	36231/93	663930	04/03/93	13/02/1996	METHOD OF ANALYSING ASTIGMATISM AND APPARATUS FOR PERFORMING CORNEAL SURGERY
Canada	2138388		04/03/93		METHOD OF ANALYSING ASTIGMATISM AND APPARATUS FOR PERFORMING CORNEAL SURGERY
Europe (Ratified in Germany, Spain, France, Great Britain, Greece, Ireland, Italy)	93905106.6	653929	04/03/93	07/11/2001	METHOD OF ANALYSING ASTIGMATISM AND APPARATUS FOR PERFORMING CORNEAL SURGERY
Japan	504815/94		04/03/93		METHOD OF ANALYSING ASTIGMATISM AND APPARATUS FOR PERFORMING CORNEAL SURGERY
Korea	95-700482	0262847	04/03/93	07/11/2001	METHOD OF ANALYSING ASTIGMATISM AND APPARATUS FOR PERFORMING CORNEAL SURGERY
New Zealand	249444	249444	04/03/93	04/11/1996	METHOD OF ANALYSING ASTIGMATISM AND APPARATUS FOR PERFORMING CORNEAL SURGERY
USA	927616		10/08/92		METHOD OF ANALYSING ASTIGMATISM AND APPARATUS FOR PERFORMING CORNEAL SURGERY
USA	313056	5514124	30/09/94	07/05/1996	METHOD OF ANALYSING ASTIGMATISM AND APPARATUS FOR PERFORMING CORNEAL SURGERY

USA	08/618535	5749867	19/03/96	12/05/1998	METHOD FOR ANALYSING ASTIGMATISM AND APPARATUS FOR PERFORMING CORNEAL
USA	09/075675	6086579	11/05/98	11/07/2000	METHOD FOR ANALYSING ASTIGMATISM AND APPARATUS FOR PERFORMING CORNEAL

