

## CURRICULUM VITAE

**Gerald E. Lowther, O.D., Ph.D.**

*Addresses:*

School of Optometry  
Indiana University  
800 East Atwater Ave.  
Bloomington, IN 47405-3680

*Home:*  
3001 Forrester St.  
Bloomington, IN 47401

*Telephone:* Office 812-855-4440 FAX 812-855-8664  
Home 812-333-6486 email: glowther@indiana.edu

*Date of Birth:* September 16, 1943

*Family:* Wife: Andrya  
Children: Karen, Dan

**Education:**

| <b>University</b>         | <b>Dates</b> | <b>Degree</b>                 |
|---------------------------|--------------|-------------------------------|
| The Ohio State University | 1961-1966    | B.Sc. in Optometry            |
| The Ohio State University | 1966-1967    | O.D.                          |
| The Ohio State University | 1967-1969    | M.Sc. in Physiological Optics |
| The Ohio State University | 1969-1972    | Ph.D. in Physiological Optics |

**Positions Held**

| <b>Institution</b>                 | <b>Dates</b> | <b>Position</b>                                       |
|------------------------------------|--------------|---|
| Indiana University                 | 1998-present | Dean, School of Optometry                             |
| Indiana University                 | 1994-present | Professor   |
| Indiana University                 | 1995-2006    | Co-Director, Borish Center for<br>Ophthalmic Research |
| Int'l. Contact Lens Clinic Journal | 1981-2001    | Editor  |
| Contact Lens Update series         | 1994-2001    | Editor  |
| Univ. of Alabama at Birmingham     | 1989-1994    | Professor   |
| Univ. of Alabama at Birmingham     | 1990-1993    | Associate Dean  |
| Ferris State University            | 1977-1989    | Professor and Director of the CL Clinic               |
| The Ohio State University          | 1975-1977    | Associate Professor and<br>Director of the CL Clinic  |
| The Ohio State University          | 1972-1975    | Assistant Professor                                   |
| The Ohio State University          | 1968-1972    | Instructor  |
| Private Practice                   | 1967-1968    |   |
| The Ohio State University          | 1965-1967    | Research Assistant                                    |

**Honors, Scholarships and Fellowships:**

Honorary Doctor of Philosophy degree in Human Resource Development from the Ramkhamhaeng University in Bangkok, Thailand, January 11, 2006  
Life Fellowship Award from the American Academy of Optometry, December 2005  
Distinguished Service Award from the Indiana Optometric Association, 2005  
Elected as a Distinguished Scholar to the National Academy of Practice in Optometry-1997  
Max Shapero Memorial Lecturer, American Academy of Optometry, San Diego, 1994.  
University of Houston College of Optometry Award for Distinguished Research on the Cornea and Contact Lenses, 1993  
Omicron Delta Kappa Society, National Leadership Honor Society, 1987  
John Neill Memorial Lecture-John Neill Medalist, Pennsylvania College of Optometry, 1985  
Distinguished Faculty Award, Michigan Association of Governing Boards, 1982  
Outstanding Educator of America Award 1975  
American Optometric Foundation Fellowship 1970-1972  
Diplomate of the Contact Lens Section of the American Academy of Optometry, 1967  
Beta Sigma Kappa (Optometry Honorary Fraternity) Silver Medal Award (presented to the student in the graduating class with the highest grade average) 1966  
President of Graduating Optometry Class  
Ohio State University Student Scholarship 1966  
Junior Merit Award given to the outstanding junior optometry student by Epsilon Psi Epsilon Professional Fraternity at O.S.U.

**Licenses:**

National Board of Examiners in Optometry no. 776  
Ohio Optometry License no. 2833  
Indiana Optometry License no. 18002805

**Memberships:**

American Optometric Association  
American Academy of Optometry  
Association for Research in Vision and Ophthalmology  
Association of Optometric Contact Lens Educators  
International Association of Contact Lens Educators  
International Society for Contact Lens Research  
National Academy of Practice

**University and College Committees**

Faculty Presider and member of the School's Faculty Policy Committee 1997  
Technology Committee, Indiana University School of Optometry 1995-1998  
Executive Committee, UAB School of Optometry, 1990-1993  
Curriculum Committee, UAB School of Optometry, 1990-1993  
Space Committee, UAB School of Optometry, 1990-1993  
Dean's Policy Committee, UAB School of Optometry, 1990-1993  
Student Affairs Advisory Committee, UAB School of Optometry, 1990-1993

UAB International Communications Network Committee, 1990-1993  
UAB Assessment Task Force, 1992-1994  
UAB Health Careers Opportunity Program Executive Committee, 1992-1994  
Optometry Dean Search Committee, Ferris State University, 1989  
Human Subjects Review Committee, Ferris State University, 1977-1989  
Faculty Research Committee (campus wide committee), Ferris State University, 1986-1989.  
Research Committee, College of Optometry, Ferris State University, 1977-1989.  
Educational Planning Committee (campus wide committee), Ferris State University, 1980  
Distinguished Teacher Committee, Ferris State University, 1979, 1983  
Continuing Education Advisory Committee - University Committee -O.S.U. 1972-1977  
Placement and Related Services Committee - University Committee- O.S.U., 1972-1976  
Chairman - O.S.U. College of Optometry Continuing Education Committee O.S.U., 1972-1976

**State, National and International Committees and Positions**

Member of the Affiliation Partnership Council of the Veterans Administration's Illiana Health Care System in Danville, IL. 2003-present  
Appointed Department Advisor for the Department of Optometry, The Hong Kong Polytechnic University, Hong Kong, 2001-2006  
Advisor to the Ramkhamhaeng University Optometry program, Bangkok, Thailand 2001-present.  
Board member and President (2003-04) of the National Board of Examiners in Optometry- 2000-present  
Planning Committee of the Accreditation Council on Optometric Education. 2002-2004.  
Executive Council, American Academy of Optometry 1986-2000  
Secretary-Treasurer, American Academy of Optometry, 1993-94  
President-Elect, American Academy of Optometry, 1995-1996  
President, American Academy of Optometry, 1997-1998  
Board member, Partnership Foundation for Optometric Education, 1997-2003  
Council Member and Charter Member, International Society for Contact Lens Research, 1979-present, President (1993-1995), President-Elect (1990-1993), Vice-President 1988-1990  
Member, AOA Council on Research, 1989-1995  
Senior Advisor, Academic Committee on Optometry, National Center of Optometry in the Wenzhou Medical College, Wenzhou, Zhejiang, The People's Republic of China, 1993-.  
Task Force Leader, Summit on Optometric Education Curriculum Conference, Denver, CO 1992  
Coordinator for Efficacy for Optometric Treatment Procedures, 1992 Invitational Clinical Research Workshop, Forest Grove, OR 1992  
Program Chairman, Am. Academy of Optometry Europe '92 Meeting, Stratford-upon-Avon, England 1992.  
Member, Board of Directors, American Optometric Foundation, 1991-92  
Member, Ad Hoc Long Range Planning Committee, American Academy of Optometry, 1991-1992  
Member AOA Commission on Ophthalmic Standards, 1982-88  
Program Chairman, Contact Lens Section, Am. Acad. of Optometry, 1984- 1986  
Papers and Program Committee, American Academy of Optometry, 1985-1986  
National Board of Examiners in Optometry, Examination Committee, 1983

Diplomate Award Chairman, Contact Lens Section, Am. Acad. of Optometry 1982-1983  
Chairman, Council on Academic Affairs, Association of Schools and Colleges of Optometry,  
1979-80

Association of Contact Lens Educators - President, 1976-1978

Association of Contact Lens Educators - Vice-President, 1973-1975

Member of U.S. Food and Drug Administration's Ophthalmic Devices Classification Panel,  
1977-1980

Consultant to the U.S. Food and Drug Administration's Ophthalmic Drugs Advisory  
Committee 1975-1976

Member of the U.S. Food and Drug Administration's Ophthalmic Drugs Advisory  
Committee, 1973-1974

Member of a Task Force of the Council of the National Eye Institute of NIH On Corneal and  
Adnexal Disease 1976

Member of the Continuing Education Committee of the Ohio Optometric Association 1970-1977

Member of the Practice Management Committee of the Ohio Optometric Association 1970-1977

Member of the Public Health Committee of the Ohio Optometric Association 1970-1977

Member of the Contact Lens Committee of the Ohio Optometric Association 1975-1977

### **Teaching Experience**

Contact Lens and graduate courses, Indiana University, 1994-present

Contact Lens Courses, UAB School of Optometry, 1989-1994

Chief, Contact Lens Clinic, Ferris State University, 1977-1989.

Contact Lens Courses, College of Optometry, Ferris State University, 1977-1989.

Vegetative Physiology of the Eye (partial responsibility). College of Optometry, Ferris State  
University, 1977-1989.

Socioeconomic, Legal and Professional Aspects of Optometry (partial responsibility) College of  
Optometry, Ferris State College, 1977-86

Director of the Contact Lens Clinic, O.S.U., College of Optometry, 1969-1977

Three contact lens courses per year 1969-1977, O.S.U. College of Optometry

Social, Legal, Professional and Economic Aspects of Optometry course, 1970-1977, O.S.U.  
College of Optometry

Public Health Aspects of Optometry course (some years full responsibility, other years partial  
responsibility) 1972-1977,

O.S.U. College of Optometry Binocular Vision Laboratory Instructor 1967

### **Papers and Post-graduate Courses Presented**

Papers, posters and courses have been presented at over 250 local societies, state, regional and  
national meetings but are not listed. Only presentations given at international meetings are listed.

The 5th French Contact Lens Congress, Bordeaux, France 1976

International Ophthalmic Optical Congress, Dusseldorf, W. Germany, 1977

2nd International Congress on Contact Lenses, Buenos Aires, Argentina, 1979

2nd International Symposium on Contact Lenses, Quebec City, Canada, 1980

International Society for Contact Lens Research meeting, London, England 1980

4th International Congress of the Contact Lens Society of Australia, Sydney, Australia, 1981

Presentation to the College of Optometry, University of Melbourne, Melbourne, Australia, 1981;

South African International Contact Lens Conference, 1981  
Scandinavian Contact Lens Symposium, Stenungsund, Sweden, 1982  
International Society for Contact Lens Research meeting, Montreal, 1982  
European Symposium on Contact Lenses, Athens, Greece, 1983  
Contact Lens Training Seminar, Department of Optometry, Frederiksberg Tekniske Skole, Copenhagen, Denmark, 1984 (3 week course for educators).  
W. German Contact Lens Congress, Aalen, W. Germany, 1984  
International Society for Contact Lens Research meeting, Cambridge Univ., England 1984  
6th International Symposium on Contact Lenses, Montreal, Canada, 1984  
French Contact Lens Conference, Marseille, France, 1984  
British Contact Lens Association's Annual Clinical Conference, Blackpool, England 1985  
Contact Lens Seminar, Calgary, Canada 1985  
Cornea and Contact Lens Research Unit Continuing Education program, Sydney, Australia, March 1986  
Melbourne Contact Lens Society, Melbourne, Australia, June 1986  
International Society for Contact Lens Research meeting, Barcelona, Spain 1986  
6th International Contact Lens Congress, Gold Coast, Australia, 1987  
European Symposium on Contact Lenses, Barcelona, Spain, 1987  
International Society for Contact Lens Research meeting, Monte Carlo, 1990  
European Symposium on Contact Lenses, Geneva, Switzerland 1991  
Europe '92, Am. Acad. of Optometry international meeting, Stratford-upon-Avon, England, 1992  
Danish Optometry and Contact Lens Society, Denmark, April 17-18, 1993  
International Society for Contact Lens Research meeting, Hayman Island, Australia 1993  
Europe '94, Am. Acad. of Optometry International Meeting, Amsterdam, The Netherlands, 1994  
Ophthalmology Contact Lens Course, Poznan, Poland, 1994  
Ophthalmology Contact Lens Course, Poznan, Poland, 1995  
Department of Vision Science, Glasgow Caledonian University, Glasgow, Scotland, 1996  
Academy Europe '96, Copenhagen, Denmark, 1996  
Ophthalmology Contact Lens Course, Poznan, Poland, 1996  
9th International Contact Lens Congress, Goldcoast, Australia, 1996  
Second International Conference on the Lacrimal Gland, Tear Film, and Dry Eye Syndromes: Basic Science and Clinical Relevance. Bermuda, 1996  
Ophthalmology Contact Lens Course, Poznan, Poland, January 1997  
3rd Vistakon Poland Contact Lens Congress, Warsaw, Poland, March 1997  
International Society for Contact Lens Research, Florence, Italy, August 1997  
Visiting lecturer, Universidade Do Minho, Braga, Portugal, October, 1998  
World Conference on Optometric Education, Cologne, Germany, November, 1998  
Academy Europe 2000, Madrid, Spain, April 2000  
2<sup>nd</sup> China International Conference on Ophthalmology and Optometry, Shanghai, 2001  
International Contact Lens Conference, Poznan, Poland, December 2002  
International Society of Contact Lens Research, Mallorca, Spain September 2003  
Ramkhamhaegn University, Bangkok, Thailand each year 2002-2007

### **Research and Scholarly Activities**

Research interests and projects are in the areas of corneal physiology, tear chemistry,

contact lens design and fitting procedures, contact lens solutions, keratoconus, extended wear contact lenses, aftercare problems, hydrogel contact lens coatings, dry eye and clinical study design.

Have been on advisory committees and/or consultant for numerous companies including Bausch and Lomb, Sola Ophthalmics, Ciba Vision, Alcon, Dow Corning, Vistakon, Paragon, Essilor, Benz Research and others.

Developed the first videodisk-microcomputer system for optometric education which was widely used in optometric education. Developed CD-ROM based self-paced, interactive educational programs

Developed a contact lens design computer program which is used by students, practitioners and industry.

Developed microcomputer databases including a contact lens bibliography, and lens and solution availability.

Spent three months doing research at the Corneal and Contact Lens Research Unit at the University of New South Wales, Sydney, Australia, 1986.

Have been a referee for the Am J Optom and Physio Optics, J Am Optom Assoc, Canadian J Optom, International Contact Lens Clinic, Ophthalmic and Physiological Optics, and Science. Have reviewed textbooks for a number of publishers

### **Research Funding**

Research funding has been provided for various studies by over 14 contact lens and pharmaceutical companies, the Ohio Lions Eye Research Foundation (1973-1977) as well as university and college funds.

(Listed below is only the funding since 1989, I have had a funded laboratory (clinic) since 1975.)

Measurement of on Eye RGP Contact Lens Fit & Performance Using a CCD TV Camera and Image Processing. Funded by The RGP Institute. 1989.

Effect of Punctal Plugs in Hydrogel Contact Lens Patients. Funded by the Bausch & Lomb InVision Institute. 1990.

Evaluation of Edges of Disposable Lenses. Funded by Bausch & Lomb. 1990.

Basic Research Grant (unrestricted) from 3M Health Care. 1990.

Comparison of Soft Lens Disinfection Systems. Funded by Ciba Vision. 1990-1991.

Deposit Quantification of Hydrogel Contact Lenses. Funded by Ciba Vision. 1990-1991.

Contact Lens Deposit Blocking Solution Clinical Study. Funded by Ciba Vision Advanced Technology Group. 1991.

Unrestricted gift from Ciba Vision to develop clinical trials grant applications. 1992

Principal investigator of a group from UAB, University of California at Berkeley, SUNY Stony Brook, Southern California College of Optometry and Ciba Vision Corp. putting together a multi-center clinical trial on the effects of UV radiation and cataract formation. Planning grant application submitted February 1, 1993.

Evaluation of the Feasibility of the Bausch and Lomb RD-677 and RD-712 Contact Lenses When Used as a Daily Wear Lens for Myopia and Hyperopia. Bausch and Lomb. 1993

Clinical Evaluation of Nondestructive Methods for Determining Cleanliness of Soft Contact Lenses. Alcon Laboratories 1993

Acceptability of Complete All-in-One Solution for Disinfection of Acuvue and Surevue Contact Lenses. Allergan, Inc. 1993

Extended Wear Comparison of Two High-Dk Hydrogel Materials. Bausch and Lomb, Inc. 1993

Evaluation of Bio-Free Care System. Sherman Pharmaceuticals, Inc., 1994

Effectiveness of the Aqua Clear System in Preventing Deposits on Hydrogel Contact Lenses. Hydro Floss, Inc. 1994

Evaluation of the Feasibility of the Bausch and Lomb RD-677 Contact Lens When Used As Extended Wear Correction for Myopia. Bausch and Lomb 1994.

Collaborative Longitudinal Evaluation of Keratoconus. N.I.H. National Eye Institute. 1995-2003.

Self Paced Interactive Learning Module Development. Vistakon. 1995-97

Refractive Procedures Educational CD-ROM Development. Essilor, France 1996-97

Base Curve Interval Study. Benz Research. 1996-97

RD-677 EW Study, Bausch and Lomb, 1996-97

SEE3 EW Study, Ciba Vision, 1997

Clinical Evaluation of a New Method to Remove the Landec Punctal Plug, 1999

### **Graduate Students**

Salih Al-Oliky, 1996-2000

John Buch, master's student, 1995-97

Marni Strancar, master's student, 1992-1994.

Caroline Gillispie, master's student, 1992-1996.

Todd Slusser, master's student, 1993-1994

Henry Carter, master's student, 1991-1992.

Post-Doctoral student: Mosa'ad Al-Abdulmunem, 1995-1996

Had three masters students at The Ohio State University, 1972-1977

Have been on the Ph.D. thesis examination committees of two candidates from the Univ. of Melbourne, Melbourne, Australia; seven candidates from the Univ. of New South Wales, Sydney, Australia; and one from the Queensland University of Technology, Brisbane, Australia.

Had Helena Manczak, M.D. from the Department of Optometry, Karol Marcinkowski University School of Medical Sciences, spend a year at the UAB School of Optometry and study under my direction for one year (1991-1992). I have visited and continue to consult with the Department of Optometry, Karol Marcinkowski University School of Medical Sciences.

### **Books and Book Chapters:**

Bier, N., and Lowther, G.E., Contact Lens Correction, Butterworths, London, 1977.

Lowther, G.E., Contact Lenses: Procedures and Techniques, Butterworths, 1982.

Lowther, G.E., Contact Lens Preparations, Chapter 12 in Clinical Ocular Pharmacology by J.D. Bartlett and S.D. Jaanus, Butterworths, 1984.

Lowther, G.E., Basic Science of Contact Lens Preparations, Chapter 13 and Contact Lens Solutions in Clinical Practice, Chapter 14 in Clinical Ocular Pharmacology by J.D. Bartlett and S.D. Jaanus, Butterworths, 1989.

Lowther, GE, Consultant Editor for The Pharmacist's Guide to Contact Lenses and Lens Care published by Ciba Vision, 1988.

Lowther, GE. Consulting Editor for Lippincott's Manual of Clinical Optometry, 1989-1995.

Lowther GE. Two chapters in Clinical Procedures in Optometry edited by Eskridge JB, Amos JF and Bartlett JD. J.B. Lippincott, 1991.

Lowther GE, Snyder AC. Contact Lenses: Procedures and Techniques. 2nd edition, Butterworths, 1992.

Lowther, G.E., Induced Refractive Changes. a chapter for the book, Modern Contact Lens Practice edited by M. Ruben and M. Guillon, Chapman & Hall Medical, London 1994.

Lowther, G.E., Lens Spoilation and Its Management, a chapter for the book, Modern Contact Lens Practice edited by M. Ruben and M. Guillon, Chapman & Hall Medical, London 1994.

Lowther, G.E. Contact Lens Solutions. A chapter in Clinical Ocular Pharmacology by J.D. Bartlett and S.D. Jaanus, Butterworths, 1995.

Lowther, G.E. Dry Eye. A chapter in Optometric Clinical Decision Making edited by E.R. Ettinger and M.W. Rouse, Butterworth-Heinemann, Boston, 1995.

Lowther, GE. Dryness, Tears and Contact Lens Wear. Contact Lens Update Series, Butterworth-Heinemann, Boston, 1997.

Lowther, GE. Patients with Distorted Corneas in Clinical Refraction: Principles and Practice. edited by I Borish and WJ Benjamin, WB Saunders Co. 1998

### **Publications:**

Hill, R.M., and Lowther, G.E., Oxygen Flux Across the Tear-Epithelial Interface as an Index

- of Corneal Wound Repair, *Amer J Optom* 44:267-274, May 1967.
- Lowther, G.E. and Hill, R.M., Research in the Corneal Biophysics Laboratory, The Ohio State University, The O-Eye-O, Winter, 1967.
- Lowther, G.E. and Hill, R.M., Fluid Forces Associated with Contact Lens Systems, *JAOA* 38:847-850, 1967.
- Hill, R.M., and Lowther, G.E., Respiratory Ophthalmometry, *Amer J Optom* 45:152-160, 1968.
- Haynes, P.R., Lowther, G.E., and Eskridge, J.B., The Design and Fabrication of Haptic Lenses Produced from Impressions of the Eye, *JAOA* 39:210-222, 1968.
- Haynes, P. R., and Lowther, G.E., Comments on the Design, Precision Fabrication and Modification of Corneal Contact Lenses, *Penn. Optometrist* 28:9-16, 1968.
- Lowther, G.E., and Hill, R.M., Sensitivity Thresholds of the Lower Lid Margin in the Course of Adaptation to Contact Lenses, *Am J of Optom* 45:587-594, 1968.
- Lowther, G.E., The Use of Computers in Optometric Education at the Ohio State University College of Optometry, O-Eye-O, Winter Quarter, 1970.
- Lowther, G.E., Miller, R.B., and Hill, R.M., Tear Concentration of Sodium and Potassium During Adaptation to Contact Lenses: 1) Sodium, *Am J Optom* 47:266-275, 1970.
- Schoessler, J.P., and Lowther, G.E., Slit Lamp Observations of Corneal Edema, *Am J Optom* 48:666-671, 1971.
- Runyan, D.M. and Lowther, G.E., Lens Diameter - A Variable in Fitting Contact Lenses, *JAOA* 42:741-746, 1971.
- Lowther, G.E., Bailey, N.J., and Hill, R.M., Conjunctival Xerosis Associated with Contact Lens Wear, *Am J Optom* 48:754-758, 1971.
- Eskridge, J.B., Schoessler, J.P., and Lowther, G.E., A Specific Biomicroscopy Procedure, *JAOA* 45:400-409, 1973.
- Lowther, G.E., and Hill, R.M., Inside the "Overwear Syndrome," *JAOA* 44:809-811, 1973.
- Filppi, J.A., Pfister, R.M., Lowther, G.E., and Hill, R.M., Factors Limiting Hydrophilic Lens Life, *JAOA* 44:722-725, 1973.
- Lowther, G.E., and Hill, R.M., Recovery of the Corneal Epithelium After a Period of Anoxia, *Am J Optom* 50:234-241, 1973.
- Lowther, G.E., and Readon, P.L., Keratoconus: Differential Diagnosis Treatment - Part I, *JAOA* 44:824-830, 1973.
- Lowther, G.E., and Hill, R.M., Corneal Epithelium, Recovery from Anoxia, *Arch Ophthalmol* 92:231-234, 1974.
- Lowther, G.E., and Hilbert, J. A., Hydrophilic Lens Deposits: Differential Appearance and Clinical Causes, *Am J Optom and Physio Optics*, 52:687-692, 1975.
- Hilbert, J.A., and Lowther, G.E., Inspecting the Integrity of Hydrophilic Lenses, *JAOA* 47:665-668, 1976.
- Hilbert, J. A., Lowther, G.E., and King, J., Deposition of Substances Within Hydrophilic Lenses, *Am J Optom and Physio Optics*, 553:51-54, 1976.
- Lowther, G.E., Hilbert, J.A., and King, J., Appearance and Location of Hydrophilic Lens Deposits, *Int. Contact Lens Clinic* 2:30-32, 1976.
- Lowther, G.E., PMMA material, *JAOA* 47:229, 1976.
- Hathaway, R. R., and Lowther, G.E., Appearance of Hydrophilic Lens Deposits as Related to Chemical Etiology, *Int. Contact Lens Clinic* 3:27-35, 1976.
- Hill, R.M., Lowther, G.E., and Steacy, D., The Aging of a HEMA Lens, *JAOA* 48:397-399, 1977.
- Lowther, G.E., Effectiveness of an Enzyme Cleaner in Removing Deposits from Hydrophilic Lenses, *Am J Optom and Physio Optics* 54: 76-87, 1977.

- Lowther, G.E., Depots sur les lentilles hydrophiles, *L'Optique Francaise and L'Opticien Lunetier* 90:110-127, 1977.
- Lowther, G.E., Inspection de la surface des lentilles hydrophiles, *L'Optique Francaise and L'Opticien Lunetier* 290:150-157, 1977.
- Lowther, G.E., The Relationship Between the Chemistry of the Tear Film and Hydrophilic Lens Deposits, *Proceedings of the Second National Research Symposium on Soft Contact Lenses*, pp. 42-50, Chicago, Ill. 1975 published by Excerpta Medica 1977.
- Lowther, G.E., Ablagerungen auf hydrophilen Linsen, *Suddeutsche Optikerzeitung Fachzeitschrift Fur Augenoptik*, 10:87-101, 1977; 11:97-108, 1977.
- Barr, J.T., and Lowther, G.E., Measured and Laboratory-Styled Parameters of Hydrophilic Contact Lenses, *Am J Optom and Physio Optics* 54: 809-820, 1977.
- Hill, R.M. and Lowther, G.E., Tracking the Troubled Gel Lens, *Contact Lens, Contact Lens Forum*, Feb. 1978.
- Hathaway, R.A., and Lowther, G.E., Soft Lens Cleaners: Their Effectiveness in Removing Deposits, *JAOA* 49:259-266, 1978.
- Lowther, G.E., Appearance, Causes and Prevention of Hydrophilic Lens Deposits, *Contact World*, 1978.
- Hathaway, R.A., and Lowther, G.E., Factors Influencing the Rate of Deposit Formation on Hydrophilic Lenses, *Aust J of Optometry* 61:92-96, 1978.
- Lowther, G.E., The United States Food and Drug Administration and the Practice of Optometry, *JAOA* 50(5):579-582, 1979.
- Lowther, G.E., A New Look at Orthokeratology, *C.L. Forum* 4(3):57-63, 1979.
- DeFazio, A.J. and G.E. Lowther, Inspection of Back Surface Aspheric Contact Lenses, *A.J.O.* 56(8):471-479, 1979
- Lowther, G.E. and A. Tomlinson, Corneal Change Induced by the Wear of Low Water Content Soft Lenses, *A.J.O.* 56(11):674-680, 1979
- Morris, S. and G.E. Lowther, A Comparison of Different Rigid Contact Lenses: Edge Thickness and Contours, *JAOA* 52(3):247, 1981
- Lowther, G.E., Comparing Corneal Thickness Changes With Silicone Resin Lenses to the Changes with PMMA, CAB and Polycon Lenses, *Int. Contact Lens Clinic* 8(3):23-29, 1981.
- Lowther, G.E. and A. Tomlinson, Critical Base Curve and Diameter Interval in Fitting of Spherical Soft Contact Lenses, *A.J.O.* 58(5):355-360, 1981.
- Lowther, G.E., Hydrophilic Lens Inspection with Phase Contrast Microscopy, *A.J.O.* 58(8):621-625, 1981.
- Lowther, G.E., and Paramore, J.E., Clinical Comparison of Silicon Resin Lenses to PMMA, CAB and Polycon Lenses. *Int. Contact Lens Clinic* 8(2):106-118, 1982.
- Buckingham, R. and Lowther, G.E., Power Distribution Across a Back-Surface Aspheric, Rigid Multifocal Contact Lens. *Int. Contact Lens Clinic* 8(4):213-217, 1982.
- Lowther, G.E., Clinical Evaluation of a Hydrogel Bifocal Contact Lens, *Int. Contact Lens Clinic* 8(4):218-226, 1982
- Lowther, G.E., Soft Contact Lens Care: A Review, *Rev of Optom* 119(10): 60-70, 1982.
- Lowther, G. E., What Makes the Silicon Lens Different? An Interview, *Contact Lens Forum* 7(12):29-39, 1982.
- Meier, A.M., and Lowther, G.E., Measured Power Distribution Across the Bausch and Lomb Soflens (PAI) Bifocal. *JAOA* 54(3):263-265, 1983.
- Rocher, P., F. Kreis, G. Lowther and K. Polse, Conversation Piece, *The Contact Lens Journal* 11(2):12-19, 1983

- Sheedy, J., Keller, D. Pitts, G. Lowther and S. Miller, Recommended Vision Standards for Police Officers, JAOA 54(10):925-928, 1983
- Lowther, G.E., Gas-Permeable, Rigid Contact Lenses, Optometry Documenta, 1983
- Lowther, G.E., J. Hill, R. Kame, V. Malinovsky and R. Takemura, Evaluation of a Thimerosal-Free Eye Drop, CL Forum 9(2):93-100, 1984
- Panel Discussion, "Coloring" Your Contact Lens Practice, CL Forum 9(3):49-71, 1984
- Lowther, G.E., Lens Materials-An Overview, JAOA 55(3):186-187, 1984
- Lowther, G.E., Coating, Filming, Degradation, JAOA 55(3):193, 1984
- Lowther, G.E., RGP Hard Lenses: Solving Problems of New and Established Wearers, Competency Enhancement Program Vol II, Module I, 1984
- Lowther, G.E., Trends Outlined in Protocols of Disinfection for Proper Care of Hydrogel Lenses, Optometry Times, 3(2): 1985
- Hammack, G. and Lowther, G.E., The Computer Controlled Videodisk, J. Optometric Education 10(4):8-11, 1985.
- Lowther, G.E. and G.G. Hammack, C.L. Video Instruction By Videodisk, Optometric Management 21(12):44-50, 1985.
- Goldberg, J. and G.E. Lowther, The Variable Near Powers of Aspheric Multifocal Corneal Lenses: A Review, International Eyecare 2(4):265, 1986.
- Palardy, A. and G.E. Lowther, Betron Soft Contact Lens Base Curve Analyzer, International Eyecare 2(9):481-485, 1986.
- Lowther, G.E. and G. Hammack, Transmission Curves for Tinted Hydrogel Lenses, International Eyecare 2(10):520-524, 1986.
- Liebetreu, M., G.E. Lowther and G. Hammack, The Effect of Chlorine on Tinted Hydrogel Lenses, International Eyecare 2(10):525-531, 1986.
- Huizinga, L. and G.E. Lowther, Comparison of Care Systems in Cleaning Hydrogel Lenses, International Eyecare 2(12):620-624, 1986
- Lowther, G.E., Effect of Solutions on HGP Contact Lens Parameters, JAOA 58(3):188-192, 1987
- Lowther, G.E., A Review of Transparent Hydrogel Tinted Lenses, Contax, pp. 6-9, March 1987
- Pole, J., G.E. Lowther and G. Hammack, Clinical Evaluation of HGP Contact Lens Surface Qualities and Subjective Lens Comfort, ICLC 14(5):185-201, 1987
- Pole, J and G.E. Lowther, Clinical Comparison of Low, Moderate and High Dk Rigid Gas Permeable Lenses, Contact Lens Forum 12(7):47-51, 1987
- Bier, N. and G.E. Lowther, Myopia Control Study: Effect of Different Contact Lens Refractive Corrections on the Progression of Myopia, Optometry Today 28(2):37-40, 1987.
- Lowther, GE and V Malinovsky, Editors, Dry Eye: A Clinical Overview, a monograph published by Frank Corbett, Inc. for Alcon, August, 1988.
- Lowther GE. Physiology of the Cornea and Tear Film. In Continuing Education Symposium Maintaining Corneal Health in the Contact Lens Wearer Univ. California Berkeley, 1988.
- Jones, B and GE Lowther, The Effect of Near Zone Size of Alges Soft Contact Lens Bifocals on Visual Acuity, ICLC 16(3):87-93, 1989.
- Davis R, Hansen D, Lowther GE, et al. Clinical Evaluation of Opti-Free Among Preservative-Sensitive Patients. Contact Lens Spectrum 4(6):73-78, 1989.
- Pole, J and GE Lowther, One Week Versus Two Week Hydrogel Extended Wear Schedules, JAOA 60(7):515-519, 1989.

- Lowther, GE, Review of Rigid Contact Lens Design and Effects of Design on Lens Fit, ICLC 15(12):378-389, 1989.
- Theodoroff CD and GE Lowther, Quantitative Effect of Optic Zone Diameter Changes on Rigid Gas Permeable Lens Movement and Centration, ICLC 17(3&4):92-95, 1990.
- Lowther GE. RGP Lenses for the Astigmatic Patient. Problems in Optom 2(2):297-309, 1990.
- Lowther GE, J Pole and M Biolo. Comparison of Two Care Systems When Used with Low Dk and High Dk Silicone/Acrylate Materials. ICLC 17(11&12):276-279, 1990.
- Schachet J, GE Lowther, J Lavaux et al. Clinical Evaluation of the Opti-Free Disinfection System. CL Spectrum 5(12):37-41, 1990.
- Lowther, GE. Evaluation of Disposable Lens Edges. CL Spectrum 6(1):41-43, 1991.
- Blehl E, Lowther, GE, Benjamin WJ. Flexural Characteristics of Soft Perm, Boston IV and RXD Contact Lenses on Toric Corneas. ICLC 18 (3-4): 59-62, 1991
- Lowther GE. A Synopsis of Extended Wear Lenses and Lens Care Regimens, Optometry Clinics 1(3):63-78, 1991
- Lowther GE, Hammack GG, Wissner S, Alvord L., Quantification of Visible Deposits on Hydrogel Lenses. ICLC 18:219-226, 1991
- Lowther GE, Manczak H. Podstawowe Zasady Dobierania Miekkich Soczewek Kontaktowych. Optyka-Optometria 1:15-21, 1992 (Polish journal).
- Lowther GE. How Can the Basic and Clinical Sciences be Integrated in Order to Make the Total Educational Experience of the Student More Meaningful? J Optom Educ 18:15-17, 1992.
- Lowther GE. Comparison of Hydrogel Contact Lens Patients With and Without the Symptom of Drying. ICLC 20(9-10):191-194, 1993.
- With Pole, JP. Comparison of Simulated K's as Measured by Computerized Videokeratographers to Keratometer Measurements. Int'l Contact Lens Clinic 1994; 21:180-184.
- Lowther GE, Semes L. Effect of Absorbable Intracanalicular Collagen Implants in Hydrogel Contact Lens Patients with Drying Symptoms. Int'l Contact Lens Clinic 22:238-243, 1995
- With Malott Le, Clare DP. Ocular Dominance Testing. ICLC 23:50-54, 1996.
- Lowther GE, Collins J. Swelling of Collagen Intracanalicular Implants, J Am Optom Assoc 68:38-42, 1997
- Lowther GE. Dryness, Tears, and Contact Lens Wear. Butterworth-Heinemann, Boston, 1997
- Tomlinson A, Craig J, Lowther GE. The Biophysical Role in Tear Regulation. In Lacrimal Gland, Tear Film and Dry Eye Syndromes II: Basic Science and Clinical Relevance. Advances in Experimental Medicine and Biology-Lacrimal Gland, Tear Film, and Dry Eye Syndromes 2. 438:371-380, 1998
- Pearce EI, Tomlinson A, Craig JP, Lowther GE. Tear Protein Changes Following Punctal Plugging. In Lacrimal Gland, Tear Film and Dry Eye Syndromes II: Basic Science and Clinical Relevance. In Lacrimal Gland, Tear Film and Dry Eye Syndromes II: Basic Science and Clinical Relevance. Advances in Experimental Medicine and Biology-Lacrimal Gland, Tear Film, and Dry Eye Syndromes 2. 438:669-674, 1998
- Slusser TG, Lowther GE. Effects of Lacrimal Drainage Occlusion With Non-Dissolvable Intracanalicular Plugs With Hydrogel Contact Lens Wear. Optom & Vis Sci 1998; 75:330-338

Editorials in each issue of the Int. Contact Lens Clinic journal for about 20 years.