

CURRICULUM VITAE

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EDUCATION:

1967 - 1970	University of Oregon, Eugene, OR B.A., Psychology 1970
1971 - 1972	Pennsylvania State University, University Park, PA M.Sc., Psychology 1972
1972 - 1974	Pennsylvania State University, University Park, PA Ph.D., Psychology 1974
2005	State University of New York, New York, NY D.Sc. (Honorary)

PROFESSIONAL EXPERIENCE:

2008 – present	Professor, Department of Ophthalmology and Visual Science, Univ. of Iowa
1999 – 2008	Oregon Lions' Anderson, Chenoweth, Ross Vision Research Chair
1997 - 2008	Director of Diagnostic Research & Senior Scientist Devers Eye Institute & Discoveries in Sight Research Labs
1989 - 1997	Professor, Department of Ophthalmology University of California, Davis, CA
1989 - 1997	Director, Optics and Visual Assessment Laboratory (OVAL) University of California, Davis, CA
1987 - 1997	Director, Visual Field Service, University of California Davis Medical Center Eye Clinic
1983 - 1989	Associate Professor, Department of Ophthalmology, University of California, Davis, CA
1978 - 1983	Assistant Professor, Department of Ophthalmology, University of California, Davis, CA
1977 - 1978	Postdoctoral Research Fellow, Department of Ophthalmology University of California, Davis, CA
1974 - 1976	Postdoctoral Research Fellow, Dept. of Ophthalmology University of Florida, Gainesville, FL

PROFESSIONAL SOCIETIES:

American Academy of Ophthalmology
 American Academy of Optometry (Fellow)
 Association for Research in Vision and Ophthalmology
 International Perimetric Society
 American Glaucoma Society
 North American Perimetric Society
 Optical Society of America
 Optometric Glaucoma Society
 Glaucoma Research Society

RESEARCH FUNDING:

1975 - 1976 Recipient, National Institute Postdoctoral Research Fellowship, #EY000173-02, Dept. of Ophthalmology University of Florida, Gainesville, FL

1977 Recipient, National Eye Institute Postdoctoral Research Fellowship, #EY05160-01, Dept. of Ophthalmology, University of California, Davis, CA

1978 - 1979 Co-principal Investigator, National Eye Institute Research Grant, #EY01841-02, "Photogrammetric Quantification of the Optic Cup".

1978 - 1980 Principal Investigator, National Eye Institute Academic Investigator Award, #KO7-EY60095, "Psychophysical Examination of the Visual Fields".

1978 - 1979 Principal Investigator, University of California, Davis, Biomedical Research Support Grant, "Analysis of Retinal Function in Normal and Abnormal Human Vision".

1978 - 1979 Principal Investigator, University of California, Davis, Faculty Research Grant, "Factors Affecting the Accommodation Response of the Human Eye".

1980 - 1984 Co-Investigator, National Eye Institute Research Grant, #EY01841-04, "Photogrammetric Quantification of the Optic Cup".

1981 - 1983 Principal Investigator, National Eye Institute Research Grant, #EY03424-01, "Perimetry and Clinical Psychophysics".

1984 - 1986 Principal Investigator, National Eye Institute Research Grant, #EY03424-04, "Perimetry and Clinical Psychophysics".

1987 - 1991 Principal Investigator, National Eye Institute Research Grant, #EY03424-07, "Perimetry and Clinical Psychophysics in Glaucoma"

1988 - 1990 Principal Investigator, "Development of Heuristic Test Strategies for Automated Perimetry", Allergan-Humphrey.

1988 - 1992 Co-Director, National Eye Institute Research Project Cooperative Agreement (#EY07461), "Optic Neuritis Treatment Trial Visual Field Reading Center"

1992-1993 Principal Investigator, National Eye Institute Research Grant, #EY09867, "Perimetric Results in the Optic Neuritis Treatment Trial"

1992 - 1996 Principal Investigator, National Eye Institute Research Grant, #EY03424-12, "Perimetry and Clinical Psychophysics in Glaucoma"

1992 - 1997 Research to Prevent Blindness Senior Scientific Investigator Award.

1992 - 2001 Co-Investigator and Co-Director, National Eye Institute Research Project, "O.H.T.S. Visual Field Reading Center".

1992-1997 Co-Investigator, National Eye Institute Research Grant, #EY09435, "Longitudinal Optic Neuritis Study Visual Field Reading Center".

RESEARCH FUNDING (cont):

1993-2001	Co-Investigator, National Eye Institute Clinical Center Grant, "Clinical Center for OHTS".
1995-2000	Principal Investigator, National Eye Institute Research Grant #EY11154, "Short Wavelength Automated Perimetry in the OHTS Trial".
1995-2008	Visual Field Consultant, National Eye Institute Research Grant #EY11030, "Randomized Trial for Retinitis Pigmentosa", (Eliot Berson, M.D., Principal Investigator).
1995-present	Principal Investigator, "Frequency-Doubling Perimetry", Welch Allyn.
1997-2001	Principal Investigator, National Eye Institute Research Grant, #EY03424-17, "Perimetry and Clinical Psychophysics in Glaucoma"
1998-2000	Co-Principal Investigator, "Glaucoma Screening Project", Collins Foundation.
1999-2006	Co-Principal Investigator, Visual Field Reading Center for "A 48-Month, Multi-center, Randomized, Double-Masked, Placebo-Controlled, Clinical Study to Evaluate the Effectiveness and Safety of Oral Memantine in Daily Doses of 20 mg and 10 mg in Patients with Chronic Open-Angle Glaucoma at Risk for Glaucomatous Progression (with double-masked treatment extended for an additional 12 months), Protocol # 192944-004-03), Allergan Pharmaceuticals.
2000-2005	Principal Investigator, National Eye Institute Research Grant #EY11154, "Short Wavelength Automated Perimetry in the OHTS Trial".
2002-2007	Principal Investigator, National Eye Institute Research Grant #EY-03424-22, "Perimetry and Psychophysics in Glaucoma".

HONORS AND AWARDS:

1987	Distinguished Service Award, American Academy of Ophthalmology
1988	Honor Award, American Academy of Ophthalmology
1992	Research to Prevent Blindness Senior Scientific Investigator Award
1994	Glenn Fry Award, American Optometric Foundation
1999	Peters Memorial Lecturer, UC Berkeley Optometry Alumni Association
2004	American Glaucoma Society Lecturer
2004	Invited Speaker, Japanese Ophthalmological Society (Tokyo)
2005	Senior Achievement Award, American Academy of Ophthalmology
2005	Honorary Doctor of Science Degree, State University of New York
2007	Med Coll Wisconsin Distinguished Research Lecturer
2009	Fellow, Association for Research in Vision and Ophthalmology (ARVO)

SERVICE ON NATIONAL AND INTERNATIONAL COMMITTEES:

1. International Perimetric Society, Automated Perimetry Standards Group (Co-Chair - 1982-1984).
2. Member, National Eye Institute Special Study Section, 1983.
- 3.. National Academy of Sciences - National Research Council Committee on Vision (Member - 1985-1988).
4. Co-Chair, Working Group on Night Vision, National Academy of Sciences / National Research Council Committee on Vision (1985-1987).
5. National Institutes of Health Glaucoma Interim Review Panel (Panel to revise five year plan for Glaucoma Section of the National Institutes of Health) (Member - 1986-1987).
6. Non-Invasive Assessment of the Visual System, Topical Subgroup Optical Society of America (Program Chair - 1987; General Chair - 1988; Advisory Group - 1989 - 1995).

SERVICE ON NATIONAL AND INTERNATIONAL COMMITTEES (cont) :

7. Member, Glaucoma Detection Subcommittee, National Society to Prevent Blindness (1985 - 2004).
8. Member, Medical Advisory Board, Department of Motor Vehicles, State of California, (1990 - 1997).
9. Member, Small Business Innovative Research (SBIR) Grant Review Study Section, National Eye Institute (1990).
10. Ad Hoc Member, VISB Grant Review Study Section, National Eye Institute (1991).
11. Ad Hoc Member, VISB Grant Review Study Section, National Eye Institute (February 1992).
12. Member, Council on Research of the American Optometric Association 1992, 1996, 1998 and 2000 Summer Invitational Research Institute.
13. Member, Executive Committee and Data Safety and Monitoring Committee, Optic Neuritis Treatment Trial (ONTT) Multicenter Clinical Trial (1986-1992).
14. Scientific Advisory Committee Member, "Visual Impairment and Functional Status in Older Americans" Clinical Research Project (Salisbury Eye Evaluation). (1993-1998).
15. Member, Executive and Steering Committee, Ocular Hypertension Treatment Study (OHTS) Multicenter Clinical Trial (June 1992 - May 2002).
16. Member, Program Committee for XIth Meeting of the International Perimetric Society (January 1993 - July 1994).
17. Member, National Academy of Sciences / National Research Council Committee on Vision on Visual Fields/Visual Acuity Disability Levels (May, 1993 - 1995).
18. Member, Eye Care Technology Forum - Glaucoma Panel, National Eye Institute, (May, 1993 - 1996).
19. Ad Hoc Member, VISB Grant Review Study Section, National Eye Institute (June 1994).
20. Member, Glaucoma Advisory Committee, Prevent Blindness America (January 1994 - 2004).
21. Co-Founder and Co-Chair, North American Perimetry Society (NAPS). (1995 -present)
22. Member, Editorial Board, Journal of Glaucoma (1995-present).
23. Member, Medical Editorial Advisory Board, Eye Care Technology Magazine, (1996 - 1998).
24. Member, Editorial Board, Optometry and Vision Science (1996-2002 & 2008-present).
25. Member, National Eye Institute Glaucoma Panel for developing "Vision Research: A National Plan: 1999-2003". (1997).
26. Member, American Academy of Ophthalmology "New Technology and Therapies Task Force" (1998 - 1999).
27. Member, Scientific Advisory Board, The Glaucoma Foundation, New York, 1997-present.
28. Guest Editorial Board Member, Investigative Ophthalmology and Visual Science, (May-Oct., 1999, 2004).
29. Ad Hoc Member, VISB Grant Review Study Section, National Eye Institute (Oct. 1999).
30. Ad Hoc Member, National Eye Institute Special Emphasis Panel (Jan 2000).
31. Member, Fight for Sight Fellowship Awards Committee (2000-2001).
32. Member, National Academy of Sciences / National Research Council Committee on Disability Determination for Individuals with Visual Impairments (2000-2002).
33. Ad Hoc Member, NEI Grant Review Study Section (April 2003; July 2003).
34. Vice President, International Perimetric Society, (June 2004 - present)
35. Member, Adult Vision Advisory Committee, Prevent Blindness America (2005-present).
36. Member, Editorial Board, Glaucoma Today (July 2005-present)
37. Member, Editorial Board, Optometric Glaucoma Society Electronic Newsletter (Oct 2005-present)
38. Member, American Academy of Optometry Awards Committee (2007-2008; Chair in 2009)
39. Chair, ZEY1 VSN (02) K Grant Review Committee, National Eye Institute (2007)

40. Editorial Board Member, International Glaucoma Review (2007 – present)
41. Member, ARVO Ethics Committee (2008 – present)

RESEARCH INTERESTS:

Perimetry, visual field testing and psychophysical evaluation of glaucoma and retinal diseases.
Development of automated diagnostic test procedures.
Imaging and topography of the optic nerve head and retinal nerve fiber layer.
Visual factors related to task performance in transportation/aviation & industry.
Motion and flicker perception.

PATENTS:

Johnson, CA and Howard DL: APPARATUS AND METHOD FOR VISUAL-FIELD TESTING. U.S. Patent No. 5,024,519 (June 18, 1991 date of issue).

Johnson, CA and Shapiro LR: REAL-TIME INTERACTIVE OPTIMIZED TEST SEQUENCE. U.S. Patent No. 5,050,983 (September 24, 1991 date of issue).

Howard, DL and Johnson CA: SERVO-CONTROLLED LIQUID CRYSTAL WINDOWS. US Patent No. 5,903,247 (May 11, 1999 date of issue).

PUBLICATIONS:

1. Leibowitz HW, Johnson CA and Isabelle E: Peripheral motion detection and refractive error. *Science*, 1972, 177: 1207--1208.
2. Leibowitz HW and Johnson CA: Dioptrics of the periphery of the eye. *Science*, 1973, 182: 87.
3. Johnson CA and Leibowitz HW: Practice, refractive error and feedback as factors influencing peripheral motion thresholds. *Perception and Psychophysics*, 1974, 15: 276-280.
4. Millodot M, Johnson CA, Lamont A and Leibowitz HW: Effect of dioptrics on peripheral visual acuity. *Vision Research*, 1975, 15: 1357-1362.
5. Johnson CA and Leibowitz HW: Velocity-time reciprocity in the perception of motion: Foveal and peripheral determinations. *Vision Research*, 1976, 16: 177-180.
6. Johnson CA: Effects of luminance and stimulus distance on accommodation and visual resolution. *Journal of the Optical Society of America*, 1976, 66: 138-142.
7. Enoch JM, Lazarus J and Johnson CA: Human psychophysical analysis of receptive field-like properties: I. A new transient like visual response using a moving windmill (Werblin-type) target. *Sensory Processes*, 1976, 1: 14-32.
8. Enoch JM and Johnson CA: Additivity of effects within sectors of the sensitization zone of the Westheimer function. *American Journal of Optometry and Physiological Optics*, 1976, 53: 350-358.
9. Johnson CA and Enoch JM: Human psychophysical analysis of receptive field-like properties: II. Dichoptic properties of the Westheimer function. *Vision Research*, 1976, 16: 1455-1462.
10. Johnson CA and Enoch JM: Human psychophysical analysis of receptive field-like properties: III. Dichoptic properties of a new transient-like psychophysical function. *Vision Research*, 1976, 16: 1463-1470.

11. Johnson CA, Leibowitz HW, Millodot M and Lamont A: Peripheral visual acuity and refractive error: Evidence for "two visual systems"? *Perception and Psychophysics*, 1976, 20: 460-462.

PUBLICATIONS (cont):

12. Johnson CA and Enoch JM: Human psychophysical analysis of receptive field-like properties: IV. Further examination and specifications of the psychophysical transient-like function. *Documenta Ophthalmologica*, 1976, 41: 329-345.
13. Johnson CA, Enoch JM and Fitzgerald CR: Human psychophysical analysis of receptive field-like properties: V. Adaptation of stationary and moving windmill target characteristics to clinical populations. *Documenta Ophthalmologica*, 1976, 41: 347-370.
14. Johnson CA: Some psychophysical considerations for visual training. *Low Vision Abstracts*, 1976, 2: 1-3.
15. Enoch JM and Johnson CA: The Westheimer function as an indicator of fixation locus. *American Journal of Ophthalmology*, 1977, 83: 495-498.
16. Johnson CA and Enoch JM: Human psychophysical analysis of receptive field-like properties: VI. Current summary and analysis of factors affecting the psychophysical transient-like function. *Documenta Ophthalmologica Proceedings Series XIV (Second International Visual Field Symposium)*, 1977, 367-371.
17. Enoch JM, Johnson CA and Fitzgerald CR: Human psychophysical analysis of receptive field-like properties: VII. Initial clinical trials of the psychophysical transient-like function. *Documenta Ophthalmologica Proceedings Series XIV (Second International Visual Field Symposium)*, 1977, 373-378.
18. Leibowitz HW, Johnson CA and Guez JR: Differences in the processing of peripheral stimuli. *Documenta Ophthalmologica Proceedings Series XIV (Second International Visual Field Symposium)*, 1977, 299-302.
19. Johnson CA, Keltner JL and Balestrery F: Effects of target size and eccentricity on visual detection and resolution. *Vision Research*, 1978, 18: 1217-1222.
20. Keltner JL, Johnson CA and Balestrery FG: Suprathreshold static perimetry: Initial clinical trials with the Fieldmaster automated perimeter. *Archives of Ophthalmology*, 1979, 97: 260-272.
21. Johnson CA, Keltner JL and Balestrery FG: Acuity profile perimetry. Description of technique and preliminary clinical trials. *Archives of Ophthalmology*, 1979, 97: 684-689.
22. Johnson CA and Leibowitz HW: Practice effects for visual resolution in the periphery. *Perception & Psychophysics*, 1979, 25: 439-442.
23. Keltner JL and Johnson CA: Automated perimetry. *The Western Journal of Medicine, Epitomes of Progress in Ophthalmology*, 1979, 139: 543.
24. Johnson CA, Keltner JL and Balestrery FG: Suprathreshold static perimetry in glaucoma and other optic nerve disease. *Ophthalmology*, 1979, 86: 1278-1286.
25. Krohn MA, Keltner JL and Johnson CA: Comparison of photographic techniques and films used in stereophotogrammetry of the optic disk. *American Journal of Ophthalmology*, 1979, 88: 859-863.
26. Johnson CA, Keltner JL, Krohn MA and Portney GL: Photogrammetry of the optic disc in glaucoma and ocular hypertension using simultaneous stereo photography. *Investigative Ophthalmology and Visual Science*, 1979, 18: 1252-1263.

27. Johnson CA and Keltner JL: Comparison of manual and automated perimetry in 1,000 eyes. In Computers in Ophthalmology, New York, IEEE Computer Society Publications, April 1979, pp 178-181.

PUBLICATIONS (cont.)

28. Johnson CA and Keltner JL: Automated suprathreshold static perimetry. *American Journal of Ophthalmology*, 1980, 89: 731-741.
29. Johnson CA and Keltner JL: Reply to Gerber, Brothers, Erickson, Sprotzer and Farrell. *Archives of Ophthalmology*, 1980, 98: 931-932.
30. Johnson CA and Keltner JL: Comparative evaluation of the Autofield-1, CFA-120 and Fieldmaster Model 101-PR automated perimeters. *Ophthalmology*, 1980, 87: 777-784.
31. Keltner JL and Johnson CA: Mass visual field screening in a driving population. *Ophthalmology*, 1980, 87 :785-790.
32. Keltner JL, Johnson CA and Cowley IJ: Acuity profile perimetry in a unique case of bilateral central serous retinopathy. *Annals of Ophthalmology*, 1980, 12: 726-731.
33. Johnson CA and Scobey RP: Foveal and peripheral displacement thresholds as a function of stimulus luminance, line length and duration of movement. *Vision Research*, 1980, 20: 709-715.
34. Johnson CA and Keltner JL: Static and acuity profile perimetry in optic neuritis. *Documenta Ophthalmologica Proceedings Series 26*, 1981, 305-312.
35. Keltner JL and Johnson CA: Capabilities and limitations of automated suprathreshold static perimetry. *Documenta Ophthalmologica Proceedings Series 26*, 1981, 49-55.
36. Keltner JL and Johnson CA: Comments on: Visual field defect characteristics in cases of hyperprolactinaemia by R. Fulmek and F. Friedrich. *Documenta Ophthalmologica Proceedings Series 26*, 1981, 334-335.
37. Maddock RJ, Millodot M, Leat S and Johnson CA: Accommodation responses and refractive error. *Investigative Ophthalmology and Visual Science*, 1981, 20: 387-391.
38. Keltner JL and Johnson CA: Automated perimetry. I. A consumer's guide. *Annals of Ophthalmology*, 1981, 13: 275-279.
39. Keltner JL and Johnson CA: Automated perimetry. II. Devices manufactured in the United States and abroad. *Annals of Ophthalmology*, 1981, 13: 395-397.
40. Johnson CA, Keltner JL and Balestrery FG: Static and acuity profile perimetry at various adaptation levels. *Documenta Ophthalmologica*, 1981, 50: 371-388.
41. Johnson CA and Keltner JL: Computer analysis of visual field loss and optimization of automated perimetric test strategies. *Ophthalmology*, 1981, 88: 1058-1065.
42. Scobey RP and Johnson CA: Psychophysical properties of displacement thresholds for moving targets. *Acta Psychologica*, 1981, 48: 59-65.
43. Scobey RP and Johnson CA: Displacement thresholds for unidirectional and oscillatory movement. *Vision Research*, 1981, 21: 1297-1302.
44. Keltner JL and Johnson CA: Comparative material on automated and semi-automated perimeters. *Ophthalmology Instrument and Book Supplement*, 1981, October: 67-69.

45. Keltner JL and Johnson CA: Effectiveness of automated perimetry in following glaucomatous visual field progression. *Ophthalmology*, 1982, 89: 247-254.
46. Johnson CA and Scobey RP: Effects of reference lines on displacement thresholds at various durations of movement. *Vision Research*, 1982, 22: 819-821.

PUBLICATIONS (cont.)

47. Johnson CA, Post RB, Chalupa LM and Lee TJ: Monocular deprivation in humans: a study of identical twins. *Investigative Ophthalmology and Visual Science*, 1982, 23: 135-138.
48. Keltner JL and Johnson CA: Comparative material on automated and semiautomated perimeters - 1982. *Ophthalmology Instrument and Book Supplement*, 1982, 89: 65-80.
49. Johnson CA and Keltner JL: The incidence of visual field loss in 20,000 eyes and its relationship to driving performance. *Archives of Ophthalmology*, 1983, 101: 371-376.
50. Keltner JL and Johnson CA: Correlations between peripheral visual function and driving performance. *Documenta Ophthalmologica Proceedings Series*, 1983, 35: 211-216.
51. Matsumoto ER, Johnson CA and Post RB: Effect of X-Chrom lens wear on chromatic discrimination and stereopsis in color-deficient observers. *American Journal of Optometry and Physiological Optics*, 1983, 60: 297-302.
52. Johnson CA and Keltner JL: Properties of scotomata in glaucoma and optic nerve disease: computer analysis. *Documenta Ophthalmologica Proceedings Series*, 1983, 35: 281-286.
53. Keltner JL and Johnson CA: Preliminary examination of the SQUID automated perimeter. *Documenta Ophthalmologica Proceedings Series*, 1983, 35: 371-377.
54. Keltner JL and Johnson CA: Comparative material on automated and semiautomated perimeters - 1983. *Ophthalmology Instrument and Book Supplement*, 1983, 1-35.
55. Verriest G, Barca L, Dubois-Poulsen A, Houtmans MJM, Inditsky B, Johnson C, Overington I, Ronchi L and Villani S: The occupational visual field. I. Theoretical aspects: the normal functional visual field. *Documenta Ophthalmologica Proceedings Series*, 1983, 35: 165-185.
56. Johnson CA: The test logic of automated perimetry. *ACTA:XXIV International Congress of Ophthalmology*, 1983, Philadelphia: JB Lippincott, pp 151-155.
57. Keltner JL and Johnson CA: Screening for visual field abnormalities with automated perimetry. *Survey of Ophthalmology*, 1983, 28: 175-183.
58. Keltner JL and Johnson CA: Automated and manual perimetry - A six year overview. *Ophthalmology*, 1984, 91: 68-85.
59. Bedell HE and Johnson CA: The perceived size of targets in the peripheral and central visual fields. *Ophthalmic and Physiological Optics*, 1984, 4: 123-131.
60. Schor CM, Johnson CA and Post RB: Adaptation of tonic accommodation. *Ophthalmic and Physiological Optics*, 1984, 4: 133-137.
61. Post RB, Scobey RP and Johnson CA: Effects of retinal eccentricity on displacement thresholds for unidirectional and oscillatory stimuli. *Vision Research*, 1984, 24: 835-840.
62. Keltner JL and Johnson CA: Comparative material on automated and semiautomated perimeters - 1984. *Ophthalmology Instrument and Book Supplement* 1984: 25-50.

63. Keltner JL and Johnson CA: Automated Perimetry. American Academy of Ophthalmology Recommendation. Ophthalmology Instrument and Book Supplement 1984 :51-57.
64. Mannis M, Zadnik K and Johnson CA: The effect of penetrating keratoplasty on contrast sensitivity in patients with keratoconus. Archives of Ophthalmology, 1984, 102: 1513-1516.

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65. Hamill TR, Post RB, Johnson CA and Keltner JL: Correlation of color vision deficits and observable changes in the optic disc in a population of ocular hypertensives. Archives of Ophthalmology, 1984, 102: 1637-1639.
66. Johnson CA, Post RB and Tsuetaki TK: Short-term variability of the resting focus of accommodation. Ophthalmic and Physiological Optics, 1984, 4: 319-325.
67. Post RB, Johnson CA and Tsuetaki TK: Comparison of laser and infrared techniques for measurement of the resting focus of accommodation: Mean differences and long-term variability. Ophthalmic and Physiologic Optics, 1984, 4: 327-332.
68. Zadnik K, Mannis MJ and Johnson CA: An analysis of contrast sensitivity in identical twins with keratoconus. Cornea, 1984, 3: 99-103.
69. Johnson CA: The rime of the ancient perimetrist. Survey of Ophthalmology, 1984, 28: 428-429.
70. Keltner JL and Johnson CA: Peripheral vision screening in a driving population. Research to Prevent Blindness, Inc. Science Writers Seminar in Ophthalmology, Washington, DC, Sept 30 - Oct 3, 1984, pp 27-29.
71. Keltner JL, May WN, Johnson CA and Post RB: The California syndrome: Functional visual complaints with potential economic impact. Ophthalmology. 1985, 92: 427-435.
72. Keltner JL, Johnson CA and Lewis RA: Quantitative office perimetry. Ophthalmology, 1985, 92: 862-872.
73. Johnson CA, Keltner JL and Jacob MP: New test procedures for the SQUID automated perimeter. Documenta Ophthalmologica Proceedings Series, 1985, 42: 91-94.
74. Lewis RA, Keltner JL and Johnson CA: Preliminary clinical trials with the Humphrey Field Analyzer. Documenta Ophthalmologica Proceedings Series, 1985, 42: 159-165.
75. Verriest G, Bailey JL, Calabria G, Campos E, Crick RP, Enoch JM, Esterman B, Friedmann AC, Hill AR, Ikeda M, Johnson CA, Overington I, Ronchi L, Saida S, Serra A, Villani S, Weale RA, Wolbarsht ML and Zingirian M: The occupational visual field: II. Practical aspects: The functional visual field in abnormal conditions and its relationship to visual ergonomics, visual impairment and job fitness. Documenta Ophthalmologica Proceedings Series, 1985, 42: 281-326.
76. Post RB, Johnson CA and Owens DA: Does performance of tasks affect the resting focus of accommodation? American Journal of Optometry & Physiological Optics, 1985, 62: 533-537.
77. Keltner JL and Johnson CA: Comparative material on automated and semi-automated perimeters - 1985. Ophthalmology Instrument and Book Supplement, 1985, 92: 34-57.
78. Lewis RA and Johnson CA: Early detection of glaucomatous damage. I. Psychophysical disturbances. Survey of Ophthalmology, 1985, 30: 111-126.

79. Algazi VR, Keltner JL and Johnson CA: Computer analysis of the optic cup in glaucoma. *Investigative Ophthalmology and Visual Science*, 1985, 26: 1759-1770.
80. Lewis RA, Keltner JL and Johnson CA: A clinician's guide to automated perimetry. *Transactions of the Pacific Coast Oto-Ophthalmological Society*, 1985, 66: 263-265.
81. Lewis RA, Johnson CA and Keltner JL: The variables of automated perimetry. *Transactions of the Pacific Coast Oto-Ophthalmological Society*, 1985, 66: 273-275.
82. Johnson CA and Keltner JL: Automated visual field testing. *Proceedings of the Triservice Aeromedical Research Panel, Monograph 33*, 1985, pp. 215-221.

PUBLICATIONS (cont.)

83. Keltner JL and Johnson CA: Current status of automated perimetry. Is the ideal automated perimeter available? *Archives of Ophthalmology*, 1986, 104: 247-349.
84. Lewis RA, Johnson CA, Keltner JL and Labermeier PK: Variability of quantitative automated perimetry in normal observers. *Ophthalmology*, 1986, 93: 878-881.
85. Keltner JL and Johnson CA: Comparative material on automated and semiautomated perimeters - 1986. *Ophthalmology*, 1986, 93: 1-25.
86. Post RB and Johnson CA: Motion sensitivity in central and peripheral vision. *American Journal of Optometry and Physiological Optics* 1986, 63: 104-107.
87. Johnson CA and Keltner JL: Optimal rates of movement for kinetic perimetry. *Archives of Ophthalmology*, 1987, 105: 73-75.
88. Johnson CA, Keltner JL and Lewis RA: Automated kinetic perimetry: An efficient method of evaluating peripheral visual field loss. *Applied Optics*, 1987, 26: 1409-1414.
89. Reed DB, Mannis MJ, Hills JF and Johnson CA: Corneal epithelial healing after penetrating keratoplasty using topical Healon versus balanced salt solution. *Ophthalmic Surgery*, 1987, 18: 525-528.
90. Keltner JL and Johnson CA: Visual function, driving safety and the elderly. *Ophthalmology*, 1987, 94: 1180-1188.
91. Zadnik K, Mannis MJ, Johnson CA and Rich D: Rapid contrast sensitivity assessment in keratoconus. *American Journal of Ophthalmology*, 1987, 64: 693-697.
92. Mannis MJ, Zadnik K, Johnson CA and Adams C: Contrast sensitivity after penetrating keratoplasty. *Archives of Ophthalmology*, 1987, 105: 1220-1223.
93. Johnson CA, Keltner JL and Lewis RA: JAWS (Joint Automated Weighting Statistic): A method of converting results between automated perimeters. *Doc Ophthalmologica Proc Series*, 1987, 49: 567-568.
94. Johnson CA and Lewis RA: Staircase scoring procedures for automated perimetry. *Doc Ophthalmologica Proc Series*, 1987, 49: 575-580.
95. Johnson CA: Peripheral visual function at various adaptation levels. *Symposium Proceedings: Night Vision - Current Research and Future Directions*. Washington, DC, National Academy Press, 1987, pp 256-274.
96. Hills J and Johnson CA: Evaluation of the t test as a method of detecting visual field changes. *Ophthalmology*, 1988, 95: 261-266.

97. Ruben JB, Lewis RA, Johnson CA and Adams C: The effect of Goldmann applanation tonometry on automated static threshold perimetry. *Ophthalmology*, 1988, 95: 267-270.
98. Johnson CA, Adams CW and Lewis RA: Fatigue effects in automated perimetry. *Applied Optics*, 1988, 27: 1030-1037.
99. Mannis MJ, Zadnik K, Johnson C and Adams C: Contrast sensitivity after epikeratophakia. *Cornea*, 1988, 7: 280-284.
100. Johnson CA, Adams AJ, Twelker JD and Quigg JM: Age-related changes in the central visual field for short-wavelength-sensitive pathways. *Journal of the Optical Society of America A*, 1988, 5: 2131-2139.

PUBLICATIONS (cont.)

101. Lewis RA, Vijayan N, Watson C, Keltner J and Johnson CA: Visual field loss in migraine. *Ophthalmology*, 1989, 96: 321-326.
102. Wedemeyer L, Johnson CA and Keltner JL: Statokinetic dissociation in optic nerve disease. In: *Perimetry Update 1988/89. Proceedings of the VIIIth International Perimetric Society Meeting*. Heijl A (ed), Kugler & Ghedini, Amsterdam, 1989, pp 9-14.
103. Johnson CA, Adams AJ and Lewis RA: Automated perimetry of short- wavelength sensitive mechanisms in glaucoma and ocular hypertension. Preliminary findings. In: *Perimetry Update 1988/89. Proceedings of the VIIIth International Perimetric Society Meeting*. Heijl A (ed), Kugler & Ghedini, Amsterdam, 1989, pp 31-37.
104. Shapiro LR, Johnson CA and Kennedy RL: KRAKEN. A computer simulation procedure for static, kinetic, suprathreshold static and heuristic perimetry. In: *Perimetry Update 1988/89. Proceedings of the VIIIth International Perimetric Society Meeting*. Heijl A (ed), Kugler & Ghedini, Amsterdam, 1989, pp 431-438.
105. Johnson CA, Adams AJ and Lewis RA: Evidence for a neural basis of age-related visual field loss in normal observers. *Investigative Ophthalmology and Visual Science*, 1989, 30: 2056-2064.
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Vislisel JM, Doyle CK, Johnson CA, Wall M. Variability of Rarebit perimetry and standard perimetry sizes I and III in normals.

CONSULTING ACTIVITIES:

- | | | |
|-----|---|--|
| 1. | Vision consultant to California Highway Patrol | 1981-1997 |
| 2. | Vision consultant to Federal Aviation Administration | 1983 |
| 3. | Vision consultant to California Commission on POST
(Peace Officer Standards and Training) | 1983-1985 &
1992-1993. |
| 4. | Vision consultant to several medical diagnostic
instrumentation and pharmaceutical companies: | |
| | a. Synemed, Inc. | 1978-1984 |
| | b. Bio-Rad | 1983-1985 |
| | c. TechnaVision | 1987-1988 |
| | d. Humphrey Instruments (Carl Zeiss Meditec) | 1983-1985 &
1987-1990 &
2000-2005. |
| | e. Welch Allyn | 1994-2010 |
| | f. Alcon Laboratories | 1994-1996 |
| | g. Merck Research Laboratories | 1994-1996 |
| | h. Allergan Pharmaceuticals | 1995, 1997-2008 |
| | i. Parke-Davis (Pfizer) | 1999-2005. |
| | j. Novartis | 2001-2003, 2010 |
| | k. Concurrent Pharmaceuticals | 2003. |
| | l. Optobionics. | 2003. |
| | m. Boeringer-Ingelheim | 2005-2009. |
| | n. Pfizer | 2005- 2009. |
| | o. Eli Lilly | 2005-2006 |
| | p. Wyeth / Guidenz | 2005-2006 |
| | q. AcuFocus | 2007-2009 |
| | r. Vitreoretinal Technologies | 2007-2010 |
| | s. Ophthalmic Research Associates | 2008-present |
| | t. AEGIS Creative Communications | 2009-present |
| 5. | Vision consultant to Hewlett-Packard | 1988 |
| 6. | Vision consultant to State of California Department of Corrections | 1990-1999. |
| 7. | Vision consultant to the California Department of Motor Vehicles | 1991-1993. |
| 8. | Vision consultant to the U.S. Department of Transportation | |
| 9. | (Vision Standards for Commercial Drivers) | 1991 |
| 9. | Vision consultant for California State Personnel Board | 1991-present. |
| 10. | Vision consultant for California Department of Transportation | 1991-1995. |
| 11. | Vision consultant for California Youth Authority | 1991-present. |
| 12. | Vision consultant for California Department of Parks and Recreation | 1992-1996. |
| 13. | Vision consultant for California Department of Fish and Game | 1992-1996. |
| 14. | Vision consultant and expert witness for legal cases involving night
driving, color vision, job-related vision standards, etc. | 1992-2002. |
| 15. | Vision Consultant for California Department of Forestry | 1997-1999. |
| 16. | Vision Consultant for the Equal Employment Opportunity Comm. | 1998-2002. |
| 17. | Vision Consultant to the California State Attorney General's Office | 1999-2004. |
| 18. | Vision Consultant, Human Rights Tribunal of Ontario, Canada | 2009-2010. |

Details of specific consulting activities for the above will be provided upon request.