

MIND-EYE
INSTITUTE

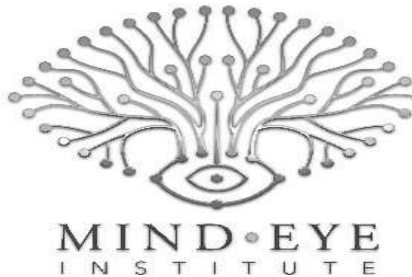
Deborah Zelinsky, O.D., F.N.O.R.A., F.C.O.V.D.
Connecting Optometry with Neuroscience

1414 Techny Road Northbrook, IL 60062
Phone: (847) 501-2020 Fax: (847) 501-2021

Website: www.mindeye.com
Email: mindeyeconnection@gmail.com

Curriculum Vitae

Education	1977 – 1981 University of Illinois Major – Statistics	Champaign, IL
	1981 – 1983 Illinois College of Optometry Bachelor of Science in Visual Science (B.S.V.S.)	Chicago, IL
	1981 – 1985 Illinois College of Optometry Doctorate in Optometry (O.D.)	Chicago, IL
Professional Experience	1984 – 1984 Minneapolis Society for the Blind Low Vision Externship with Russ Osnes, O.D.	Minneapolis, MN
	1985 – 1987 Ft. Lauderdale Eye Institute Staff Optometrist	Ft. Lauderdale, FL
	1988 – 1989 Sunrise Rehabilitation Institute Consultant for Brain Injured Patients	Sunrise, FL
	1986 – 1989 Eye Contact, Private Practice Emphasis on Optometric Rehabilitation	Coral Springs, FL
	1988 – 1991 Schwartzman-Steinberg Low Vision Clinic Director of Macular Degeneration Clinic	Ft. Lauderdale, FL
	1992 – present The Mind-Eye Connection, now Mind-Eye Institute Emphasis on the Diagnosis, Treatment and Rehabilitation of Patients with: - Traumatic Brain Injury - Autism and Developmental Delay - Processing and Learning Difficulties	Northbrook, IL
Featured/Mentioned in Books	2001 – present Consultant in Optometric Litigation	Chicago, IL
	2012 – present Clinical Associate Professor at Western University of Health Sciences	Pomona, CA
	2015 Featured in a Book “The Ghost in My Brain: How a Concussion Stole my Life Viking Publishers 2015 and How the New Science of Brain Plasticity Helped Me Get It Back, by Clark Elliott, ISBN 978-0525426561	
	2016 Mentioned in New York Times Best Seller “The Brain’s Way of Healing” by Norman Doidge, Viking-Penguin Publishers 2015, ISBN-13: 978-0143128373	
	2019 Discussed on pg. 381 in 2 nd Edition of “Outsmarting Autism” by Patricia Lemer	
	2020 Mentioned in “Just Give Me the Road”, Anne Marie Romer ISBN-13: 978-1970063486	
	2021 Mentioned in “Are You Drowning?: Overcoming in the Midst of Trauma and Loss”, Jenna Shotmeyer ISBN-13: 978-0578982427	
	2021 Discussed as part of a brain injury protocol in “The Silent Epidemic: What Everyone Should Know About Brain Injury” by Mark John Condon ISBN 978-1664153028	
	2023 Interviewed for “All in the Mind”, by Lynne Malcolm ABC Books UPC 978-0733342424	
Languages	English (Primary) French (Fluent) Greek (Conversational) Spanish (Minimal)	
PRESENTATIONS Brain Injury, Alzheimer’s, Neurology, Cardiology, Ophthalmology, Neuro-Optometry	<ul style="list-style-type: none"> • Inclusion of Brain Mapping and Retinal Neuromodulation in Eye Care Policy Los Angeles, CA • Shedding Light on the Connection between Retinal Circuitry & Brain Function Saudi Arabia (Virtual N20 Neuroscience summit, writing policy for G20 Leaders) • Influencing Mental Health Through an Overlooked Mind-Eye Connection Buenos Aires, Argentina N20 Neuroscience summit, writing policy for G20 Leaders 	



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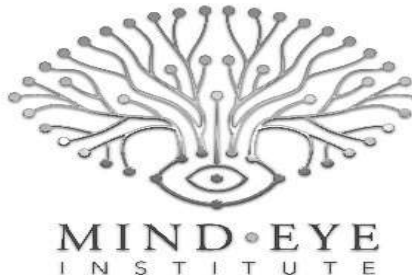
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Curriculum Vitae (cont.)

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- Neuroplasticity of Visual Processing Madrid and Barcelona, Spain
- North Carolina's Family Physician's -- Neuro-Optometry and Concussions Asheville, NC
- 93rd Annual American Congress of Rehabilitative Medicine (ACRM)
The Neurological Effect of Lenses and Puzzles on Brain Plasticity Chicago, IL
- 12th Annual Congress for Brain Mapping and Therapeutics, Chairperson Los Angeles, CA
Ocular Measurements as Novel Diagnostic and Therapeutic Tools in Brain Function
- Lutheran General Hospital Rehabilitation Department See with Your Ears Park Ridge, IL
- World Congress on Neuro-Therapeutics: Dilemmas, Debates & Discussions (DDD) Basel, Switzerland
- Behavioral Optometry Academy Foundation
The Importance of Having a Solid Mind-Eye Connection Maintz, Germany
- Cedars-Sinai Medical Center
Retinal Stimulation as a means of neuromodulation West Hollywood, CA
- 2nd International Conference on Neurology and Therapeutics
Non-invasive assessment and treatment of autonomic function Chicago, IL
- 10th Annual Congress for Brain Mapping & Image Guided Therapy
Unexpected effects of selective retinal stimulation on metabolism Baltimore, MD
- 3rd International Conference on Clinical and Experimental Ophthalmology
The effect of retinal stimulation on internal visualization systems Chicago, IL
- 1st International Symposium on Deep Brain Connectomics
Effects on deep brain circuitry by modulation of retinal signals Clermont-Ferrand, France
- 9th Annual World Congress for Brain Mapping & Image Guided Therapy
Non-invasive assessment and treatment of autonomic function Toronto, CAN
- 1st International Conference on Clinical Research in Cardiology
Overlooked effects of ambient lighting on cardiovascular disease San Francisco, CA
- 1st International Conference on Clinical Research in Ophthalmology
Clinical applications of interactions among the cornea, muscles and retina San Francisco, CA
- 6th International Congress of Behavioral Optometry
A Novel Contribution to the Optometric Rehabilitation of Amblyopia Pomona, CA
- Society for Applied Neuroscience
Clinical Applications of the Neurological Aspects of Lenses Seville, Spain
- Illinois Brain Injury Foundation
The Mind-Eye Connection: How TBI affects Daily Function Chicago, IL
- International Neuro-Optometric Rehabilitation Association
Testing of the Ignored Retino-Collicular Pathway Long Beach, CA
- International Occupational Therapy Convention
Occupational Therapy and Neuro-Optometry Together Athens, Greece
- French Optometry Students – Guest Lecturer
Beyond Traditional Vision Care Paris, France
- International Congress of Optometry:
Optometrists: Jugglers of Sensory and Motor Systems Melbourne, Australia
- Sutton Invitational Symposium The Z-Bell Test Auditory and Visual Linkages Skive, Denmark
- Using Retinal Stimulation to Influence Glucose Regulation Annual Meeting
2023 Alzheimer's Association Amsterdam, Netherlands
- The Importance of a Mind-Eye Connection, Congressional Neuroscience Caucus Washington, DC



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**Autistic
Spectrum
and
Learning
Problems**

- Autism One Awareness & Attention: How to Use Visual Clues in Autism Park Ridge, IL
- The Mind-Eye Connection: Your Child's Window to the World Park City, UT
- Kids on the Move Teaching Professionals about Brain Development Orem, UT
- Lutheran General Hospital Effects of Attention Deficit Disorder in Everyday Park Ridge, IL
- Grayslake High School -- Visualization and Reading Grayslake, IL
- The Breakers Retirement Community Learning to Live with Macular Degeneration Chicago, IL
- Idaho Commission for the Blind and Visually Impaired Boise, ID
- Neuro-Optometry's Role in Visual Rehabilitation
- Blind Service Association Enhancing Peripheral Vision in Macular Degeneration Chicago, IL
- Discovery Low Vision Conference A New Way of Seeing with Macular Degeneration Chicago, IL
- World Pharma Virtual Summit Changing Neurotransmitter Activity via Retinal Stimulation Rome, Italy

**Low Vision
Pharmacology**

AWARDS

- 2013 Founding Fathers Award from the Neuro-Optometric Rehabilitation Association
- 2020 Theia Award for Innovation from Women in Optometry
- 2022 Golden Axon Award for Leadership from Society for Brain Mapping & Therapeutics

PUBLICATIONS

- 2002 Open Your Eyes and Listen Book for Parents & Teachers explaining how the eyes are connected to more than eyesight Carrington Press, Inc.
- 2004 An Insight to Vision Text and medical illustrations encompassing how new neuroscience research affects visual pathways Carrington Press, Inc.
- 2004 Abre Los Ojos y Escuche (Spanish translation) Carrington Press, Inc.
- 2007 Neuro-Optometric Diagnosis, Treatment and Rehabilitation following Traumatic Brain Injuries. Zelinsky, D. *Physical Medicine and Rehabilitation Clinics of North America*, February 2007, Vol. 18:1, p 87-107 Elsevier
- 2008 Diagnostic neuron-optometrique prise en charge et readaptation après les traumatismes crâniens Optometric Society, France
La Revue D'Optometrie, No. 25, Avril 2008, ISSN 1632-806X
- 2010 Brain Injury Rehabilitation: Cortical and Subcortical Interfacing via Retinal Pathways. PM & R, September 2010, Vol 2 (9) p. 852-857 Elsevier
- 2012 fMRI Analysis of Three Concurrent Processing Pathways, *Functional Magnetic Resonance Imaging - Advanced Neuroimaging Applications*, Rakesh Sharma (Ed.), May, 2012, ISBN: 978-953-51-0541-1 <http://www.intechopen.com/books/functional-magnetic-resonance-imaging-advanced-neuroimaging-applications/fmri-analysis-of-three-concurrent-processing-pathways> In Tech
- 2014 Auditory/Visual Integration Assessment & Treatment in Brain Injury Rehabilitation Traumatic Brain Injury, Dr. Farid Sadaka (Editor), ISBN: 978-953-51-1222-8, Available from <http://www.intechopen.com/books/traumatic-brain-injury/auditory-visual-integration-assessment-and-treatment-in-brain-injury-rehabilitation> In Tech
- 2017 Neuromodulation via Retinal Stimulation, Textbook of Advanced Neurophotonics and Brain Mapping. Drs. Yu Chen and Babak Kateb (Editors), Taylor Francis ISBN 13: 9781482236859/
- 2017 The Emerging Field of Neuro-Optometry Provides a Synergistic Effect with Ophthalmology Remedy. 2017; 2:1075 http://remedyoa.com/pdfs_folder/roa-v2-id1075.pdf
- 2019 Collaboration and Coordination, chapter in Patrick Quaid's book, Learning to See = Seeing to Learn ISBN 13: 978-1999059224
- 2019 Advances in Computer Vision pp 564–579 Elliott C, Putnam, C, Zelinsky D, et al, Using the Z-bellSM Test to Remediate Spatial Deficiencies in Non-Image-Forming Retinal Pathways
- 2021 How Eyeglasses Impact the Brain, Chapter 12 in Concussion Discussions, Edited by Amy Zellmer and Shane Steadman ISBN 13: 9781736632000
- 2023 (pending chapter) Retinal Neuromodulation as an Influence on Brain Function by Applying Nanoneuroscience Discoveries to be in upcoming 2nd edition of Textbook of Nanoneuroscience and Nanoneurosurgery ISBN 13: 978-1439849415 Springer



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RESEARCH**

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2005 U.S. Navy Optometry Research Project led by Dr. Chidi Kena and Dr. Suzanne Krause regarding scotopic sensitivity in Naval recruits
2005 – present The Effects of Retinal Stimulation on Auditory Localization

**PROFESSIONAL
MEMBERSHIPS**

Life Member of MENSA
1985 – present Member of Optometric Extension Program (O.E.P.)
1989 – present (Fellowship in 2010) Charter Member of the Neuro-Optometric Rehabilitation Association (N.O)
2008 – 2021 Community Leader for the Society for Neuroscience (SFN) NeurOnline
2009 – 2021 Member of the American Association for the Advancement of Science (AAAS)
2009 – present Member of the Society for Brain Mapping and Therapeutics
2011 – reinstated as a Fellow Member of the College of Optometrists in Vision Development (F.C.O.V.D.) Originally earned in 1989.
2013 – present Member of the American Optometric Association
2023 – President 2023-24 Society for Brain Mapping and Therapeutics

**PROFESSIONAL
ACTIVITIES**

American Institute of Biological Sciences Scientific Peer Advisory and Review Services for the Department of Defense Congressionally Directed Medical Research and Development Programs

**Grant Reviewer
Traumatic
Brain Injury**

2007 Clinical Management Panel Peer Review of the Investigator Initiated and New Investigator Proposals for the Extramural Traumatic Brain Injury Research Program
2008 Clinical Treatment and Rehabilitation Panel Peer Review of the Multidisciplinary Research Consortium Proposals for the Extramural Traumatic Brain Injury Research Program

**Grant Reviewer
Eye and Vision
Research**

2009 Blast Peer Review Panel for the Defense Medical Research Program's Intramural Applied Research and Advanced Technology Development
2014 Screening tools for mild Traumatic Brain Injury
2008 Eye and Vision Research Grant Proposals for Dept. of Defense's Congressionally Directed Medical Research Program's Fiscal Year 2008
2016 Vision Research Grant Proposals for Dept. of Defense's Congressionally Directed Medical Research Program's Fiscal Year 2016
2017 Vision Research Program - Cell-Based Therapies for Department of Defense's Congressionally Directed Medical Research Program Fiscal Year 2017

Editorial Reviewer

2010 – present Elsevier's Physical Medicine and Rehabilitation Journal
2014 – present JoVE (Journal of Visualized Experiments) Peer Reviewed Scientific Video Journal
2016 – present Remedy Open Access Ophthalmology Journal

**Boards and
Advisory
Committees**

2004 – present Scientific Learning Corporation
2019 – Medical Advisory Board, Hope for HIE (Hypoxic Ischemic Encephalopathy)
2020 – Board of Directors, Society for Brain Mapping and Therapeutics

**Teaching and
Certification**

2011 Exploration of sensory-motor interactions program to the Society of European Optometrists in Brussels, Belgium
2012 Exploration of patient-environment interactions program to optometrists, occupational and physical therapists Northbrook, IL
2013 Exploration of visual/auditory integration program to optometrists in Mainz, Germany
2014 ImPACT certification for concussions at the NORA annual meeting Raleigh, North Carolina
2014 The Importance of Visual/Auditory Interactions in Patients - program in Vienna, Austria
2015 Exploration of changes in retinal biochemistry in concussions Northbrook, IL
2017 An Insight to Vision—beginning of certification process for Z-Bell Testing in Northbrook, IL
2017 Neuroplasticity of Visual Processing Montreal, Canada
2019 The Overlooked Effect of Retinal Stimulation on Cardiovascular Health in Amsterdam, Netherlands

PATENTS

2008 U.S. Patent # 7,427,136 issued on the Z-bellSM Test Method
2009 U.S. Patent # 7,607,777 issued on alteration of corneal tear film
2011 U.S. Patent # 8,083,351 issued on alteration of body hormones through corneal tear film
2015 U.S. Patent # 9,155,489 issued on retinal tolerance device
2016 U.S. Patent # 9,433,354 issued for a device to assess retinal signal processing