

CURRICULUM VITAE

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EDUCATION:

1961-65 Bachelor of Arts (Chemistry)
Northwestern University, Evanston, Illinois
1965-69 Doctor of Medicine, The Johns Hopkins University, Baltimore, Maryland

POSITIONS:

1969-70 Intern (Medicine), New York Hospital, Cornell University
1970-73 Resident (Neurology), The Johns Hopkins Hospital
1973-75 Commissioned Officer, U.S. Public Health Service, N.I.H.
1975-78 Assistant Professor of Neurology and Ophthalmology
The Johns Hopkins University
1978-85 Associate Professor of Neurology and Ophthalmology
The Johns Hopkins University
1982, 1991, 2005 Sabbatical Leaves, National Eye Institute, N.I.H.
1985- Professor of Neurology (Primary Appointment), Ophthalmology, Otolaryngology and Head and Neck Surgery, and Neuroscience, The Johns Hopkins University, School of Medicine

HONORS AND AWARDS:

Phi Beta Kappa, Northwestern University, 1965.
Henry Strong Denison Scholar, The Johns Hopkins University, 1967-68.
Teacher-Investigator Award, National Institute of Neurological Diseases and Stroke, 1975-1980.
Inaugural Frank R. Ford Award for Outstanding Clinical Teaching of Neurology, 1979.
Research Career Development Award, National Eye Institute, 1980-1985.
Inaugural Visiting Professor of Neurologic Education, Mayo Clinic, Rochester, Minn., 1980.
Merit (10 year research) Award, National Eye Institute, N.I.H., 1987-1997.
Alpha Omega Alpha, Johns Hopkins Alumnus, 1991.
Visual Sciences B, N.I.H. Study Section, 1989-93, Chairperson, 1992-93.
Research to Prevent Blindness Manpower Award, 1993-1995.
Hallpike-Nylén Medal of the Bårány Society, Uppsala, Sweden, 1994.
Ottorino Rossi Award and Medal of the University of Pavia, Pavia, Italy, 1994.
Frank R. Ford Award for Outstanding Clinical Teaching of Neurology, 1994.
Member, National Advisory Eye Council, N.I.H, 1996-1999.
National Health Information Awards (Honoring the Nation's Best Consumer Health Information. Programs and Materials), third place, for educational videotapes on dizziness.
The Johns Hopkins School of Medicine Professor's Award for Distinction in Teaching in the Clinical Sciences (2001-2002).
Inaugural H. Houston Merritt Award and Lecture, American Academy of Neurology, April, 2003.
Counselor, American Neurological Association, 2003-05.
Beilchowsky prize (German Strabismus Society) to my coauthor for two papers in Investigative Ophthalmology Visual Science (Steffen et al, 2000, 2002)
Clinical and basic ocular motor research: an international meeting in Siena, Italy, July, 2004, in my honor.
'Master clinician award', Johns Hopkins senior neurology residents, June, 2005

NAMED LECTURES

J. L. Silverside Lecture, University of Toronto, Toronto, 1986.
Morris Bender Lecture, Mt. Sinai Medical School, New York, 1992.
Jerome Merlis Lecture, University of Maryland, Baltimore, 1992.
Prince Lecture and Visiting Fellow, Northwestern University, Chicago, 1993.
J. Clifford Richardson Lecture, Canadian Neurosciences Congress, Toronto, 1993.
AAN Lecture at the Mexican Academy of Neurology, Oaxaca, Mexico, 1993.
Ottorino Rossi Lecture, University of Pavia, Italy, 1994.
Inaugural Swithin Meadows Lecture, National Hospital, Queen Square, London, 1995.
Speaker of the Royal College of Physicians and Surgeons of Canada, Toronto, 1996.
Norman Allen Lecture, Ohio State University Medical School, Columbus, 1997.
Inaugural H. Houston Merritt Lecture, American Academy of Neurology, April, 2003.
Oration in honor of Professor G. Arjundas, Madrass Medical College, Chennai, India, Jan, 2005
Ramasamy Udayar Oration in Neuroscience, Ramachandra Medical College, Chennai, India, Jan, 2005.
Inaugural Alfred Kestenbaum Lecture, University of Wurtzberg, Germany, November, 2005.
Brain Scholar lectures, London, March, 2006 (upcoming).
Hartell Thompson Lecture, University of Connecticut, May, 2006 (upcoming)

ADDITIONAL MAJOR INVITED LECTURES

Pediatric Neuroophthalmology Course, Sydney, Australia, 1981
Boorhaven Courses, Leiden, Holland, 1984, 1985
American Neurological Association, Chicago, 1984
Trinational Conference on Motor Control, Tel Aviv, Israel, 1985.
Japanese Society for Equilibrium Research, Kobe, Japan, 1987
Australian Neuroophthalmological Society, Melbourne, Australia, 1987
Pan-Asian Oceanic Otolaryngological meeting, New Delhi, India, 1987
Colombian Neurological Society, Bogota, Colombia, 1988
French Neurological Society, Paris, France, 1988
European Conference on Eye Movements, Pavia, Italy, 1989
Belgian Neurological Society, Bruges, Belgium, 1990
Bárány Society, Tokyo and Sendai, Japan, 1990
Vestibular Pharmacology Conference, Florence, Italy, 1991
Bárány Society, Prague, Czechoslovakia, 1992
French Neurological Society, Paris, France, 1992
Brazilian Neurological Congress, Porto Alegre, Brazil, 1992
Japanese Society for Equilibrium Research, Maebashi, Japan, 1992
Charles University, Prague, Czech Republic, 1993
Pan Hellenic Neurology Congress, Thessalonica, Greece, 1993
Neurootology Symposium, Siena, Italy, 1993
International Neuroophthalmology Society, Freiburg, Germany, 1994
Neuroophthalmology Symposia, Buenos Aires and Rosario, Argentina, August, 1994
Mexican Academy of Neurology, Villahermosa, Mexico, October, 1994
British Ocular Motor Group, London, England, December, 1994
South African Neurological Association, Bloemfontaine, March, 1995
European Neuroophthalmology Society, Antwerp, May, 1995
Swedish Ophthalmology Society, Stockholm, May, 1995
Neurootology Workshop, Pamplona, Spain, September, 1995
Conference on Vestibular Cortex, Strasbourg, France, October, 1995
Japanese Neuroophthalmology Society, Tokyo, Japan, November 1996
Hokaido Neurology Society, Sapporo, Japan, November 1996.
Niigata Ophthalmology Society, Niigata, Japan, November 1996
Neuroophthalmology and Neurootology symposia, Buenos Aires, December 1996.
Neurootology symposium, World Congress of Neurology, Buenos Aires, September, 1997.
Symposium on Noninvasive Monitoring in Intensive Care, Hamburg, Germany, January, 1998
Taiwanese Annual Neurology Meeting, Tainan, Taiwan, March, 1998
Neurootology – Neuroophthalmology Courses, Pamplona, Spain, March, 1998
Otolith Function in Spatial Orientation and Movement, Zurich, Switzerland, May, 1998.
Neurogenetics Conference. Terni, Italy, July, 1998
Influence of Virtual Images on Human Factors, Tokyo, May, 1999.
Vestibular Disorders Symposium, Firenze, Italy, June, 1999.
Eye Movement Symposium, Beijing, China, July, 1999.
Pan-American Congress of Neurology, Cartagena, Columbia, October, 1999.
Iberoamericano Neurootology Congress, Rosario, Argentina, April, 2000.
South African Specialist Course for Neurologists, Cape Town, South Africa, August, 2000.
International Neuroophthalmology Society, Toronto, Canada, September, 2000.
Eye Movement Symposium honoring Han Collewyn, Amsterdam, Holland, September, 2000.

ADDITIONAL MAJOR INVITED LECTURES (cont)

Visiting Professor, Guys Hospital – Johns Hopkins Exchange, London, October 1-28, 2000, with formal lectures at Guys, St. Thomas, Kings Cross, Moorefield's, Charring Cross, the National Hospital at Queens Square, and the Departments of Physiology and of Neurology at Oxford University.

Eye Movement Symposium honoring Bernard Cohen, Seeon, Germany, March, 2001.

Eye Movement Symposium honoring the inauguration of Inserm Unit 594 in Lyon, France, March, 2001.

Disorders of Postural Control and Vestibular Function, Pamplona, Spain, May, 2001.

Philadelphia Neurological Society, January, 2002.

International Neuroophthalmology Society, Buenos Aires, May 2002.

Swiss Neurological Society, Zug, Switzerland, May 2002.

Japanese Neuroscience Society, Tokyo, July 2002.

Erasmus University, Rotterdam, The Netherlands, Neuroscience Seminar Series, September, 2002.

Bárány Society, Seattle, Washington, September, 2002.

German Ophthalmological Society meeting on eye movements and vision, Heidelberg, October, 2002

German Society for Clinical Neurophysiology - Functional Imaging, Keynote lecture, Lübeck, Oct 2002.

Eye Movement Symposium honoring Ulrich Buttner, Wildbad-Kreuth, Germany, April, 2003

Agarini Foundation, Courses in Neuroscience, “Ataxias”, Alviano, Italy, May 2003.

XVII Congreso Iberoamericano Otoneurología, Madrid, Spain, June, 2003.

University of Cadiz, teaching courses, Cadiz, Spain, June, 2003.

American Headache Society, Chicago, Ill. June, 2003.

100th Meeting of the Chugoku-Shikoku Ophthalmology Society, Okayama, Japan, October, 2003.

Dept of Ophthalmology, Kawasaki University, Kurashiki, Japan, October, 2003.

Strabismus Update, Symposium in honor of Gunner Lennerstrand, Stockholm, Sweden, January, 2004.

Neuroophthalmology Symposium honoring Dr. Shirley Wray, Boston, Massachusetts, April, 2004.

Club Latin American Neuroophthalmology, Mendoza, Argentina, May, 2004.

‘Expert’ Neuroophthalmology Course, Zurich, Switzerland, July, 2004.

Brazilian Neurology Congress, Brasilia, Brazil, October, 2004.

International Neuropsychology Society annual meeting, St. Louis, Feb, 2005.

Keynote lectures, Korean Balance Society, Seoul, Korea, June, 2005.

Dept of Psychology and Neuroscience program, Seoul National University, June, 2005.

Dept of Neurology, Seoul National University Hospital, June, 2005.

World Congress of Otolaryngology, Rome, Italy, June, 2005.

Association of Colombian Neurologists, Medellin, Colombia, August, 2005.

Neuroscience Institute Congress, Lima, Peru, August, 2005.

Lecture and honorary membership, Bielschowsky Society, Giessen, Germany, November, 2005.

RESEARCH INTERESTS: Normal and abnormal ocular motor and vestibular physiology

ACTIVE GRANTS:

N.I.H. Oculomotor Disorders: Clinical and Experimental Study, (1976-2007) EY01849, PI.

N.I.H. Evaluation of Vestibular Function in Ménière’s Disease (2002-2009) DC05040, Co-investigator.

N.I.H. Mechanisms of Rehabilitation of Cerebellar Ataxia (2002-2006) HD40289, Co-investigator.

N.I.H. ADHD in Girls: Neuroimaging and Executive Behavior (2003-2007) NINDS43480 Co-investigator.

N.I.H. Scaling in Reflexive and Voluntary Eye Movements (2004-2008) NEI 14193, Co-investigator.

N.I.H. Eye Movements of Neurology of Deficient Response Inhibition in ADHD (2005-2009), NINDS 047781, Co-investigator.

N.I.H. Wilmer Institute Mentored Clinical Research Scholar Program (2003-2008) NEI 5 K12EY015025, Mentor.

ACTIVE GRANTS (con't)

A-T Children's Project. High resolution MRI Eye Movements, Tremor Quantification and Baclofen Drug Trial: A Multi-Disciplinary Approach to Manage A-T (2005-2007), Supervisor of Fellow.

Gustavus and Louise Pfeiffer Foundation. High resolution MRI Eye Movements, Tremor Quantification and Baclofen Drug Trial: A Multi-Disciplinary Approach to Manage A-T (2006). Supervisor of Fellow

SOCIETIES:

Association for Research in Vision and Ophthalmology

American Academy of Neurology (Fellowship, 1982)

Bárány Society

Society for Neuroscience

American Neurological Association, 1981

Australian Neuroophthalmology Society (honorary)

Canadian Society of Neurologists (honorary)

Asociacion Colombiana de Neurologia (honorary)

La Société Française de Neurologie (honorary)

Europae Neuro-Ophthalmologiae Societatis, Fellow

German Neurological Society (corresponding member)

Swiss Neurological Society (corresponding member)

Deutsche Gesellschaft für Klinische Neurophysiologie (DGKN) (honorary member)

Bielschowsky Society (Germany) (honorary member)

EDITORIAL BOARDS

Investigative Ophthalmology (1977-1980)

Reviews of Oculomotor Research (1982-1994)

Journal of Neuro-Ophthalmology (1982-1997)

Annals of Neurology (1983-1989)

Neuro-Ophthalmology (1983-2003), co-managing editor (1990-1992)

Journal of the Neurological Sciences (1984-87)

Journal of Vestibular Research (1989-2002)

European Neurology (1992-1997)

Brain (1994-1997)

Annals of Neurology, associate editor (1997-2005)

The Cerebellum (2001-)

ADMINISTRATIVE POSITIONS:

Director: The Johns Hopkins Neurology Residency Selection (1975-1979)

Secretary-Treasurer: Maryland Neurological Society (1976-1980)

Director: The Johns Hopkins Neurology Outpatient Department (1977-1981)

Member, Medical School Council (1979-1980, 1986-88)

Director: Clinical Neurophysiology Laboratories (1982-1993)

Director: Clinical Eye Movement Laboratory (1982-present)

Member, Public Relations Committee, Society for Neuroscience (1986-88)

Director: Neurology Residency Program (1986-90)

Course Director: American Academy of Neurology, Neuroophthalmology (1986-90), Neurootology (1995-97), Emergency Room Management of Neuroophthalmic Disorders (1993-96), Eye movements and nystagmus (2001-04)

Chair: Johns Hopkins Medical School Associate Professors Promotion Committee (1988-1991)

ADMINISTRATIVE POSITIONS (con't):

Member, Chair of Otolaryngology (1990) and Ophthalmology (2002) search committees
Member, Scientific Program Committee, American Academy of Neurology (1991-1993)
Member, Medical Advisory Board: Vestibular Disorders Association (VEDA) (1991-)
Member, Board of Directors: Society for Progressive Supranuclear Palsy (1992-1997)
Member, Medical Advisory Board: Society for Progressive Supranuclear Palsy (1992-2004)
Advisory panel for development of neuro-otologic assessment tests
-- Naval Aerospace Medical Research Laboratory, 1992
Chair: Neurology Department Appointment and Promotions Committee (1992-1996)
Chair: Honorary Membership Committee, American Neurological Association (1995-1997)
Chair: Neurology Department Finance Committee (1996-present)
Course co-director: Vestibular and Auditory Disorders, Johns Hopkins Hospital, March, 1997
Vice-chair for finance, Department of Neurology (1998-present)
American Neurological Association, Long range planning committee 2002-2004
Director: The Johns Hopkins Neurology Residency Selection (2005-)

BOARD CERTIFICATION:

American Board of Psychiatry and Neurology (1976)

TRAINEES (51 postdoctoral fellows or visiting scientists have come for a sustained period to train with me in our clinic or laboratory) A. Yamazaki, R.J. Leigh, S. Gordon, N. Carter, N. Hara, L. Levi, T. Suzuki, E. Frohman, A. Oohira, T. Tsai, T. Hain, J-R. Tian, W. Keys, J. Ventre, C. Tiliket, S. Tan, B. Gaymard, P. Kramer, R Tusa, R. Lewis, J. Ygge, M. Walker, W. Fletcher, G. Peng, G McKenna, P. Trillenber, D. Straumann, D. Solomon, H. Steffen, T. Kasai, M. Takagi, M. Fetter. B. Estanol. D. Newman-Toker, S. Ramat, M Fotuhi, S. Eggers, S. Tow, A. Rufa, S. Ying, H. Ichijo, E, Isotalo, S. Kellman, C-K. Lee, J. Tian, N. Perez, X Shan, A. Tarnutzer, H. Lee, L. Mejico)

BIBLIOGRAPHY (ABOUT 300 PUBLICATIONS EXCLUDING ABSTRACTS)

1968

Zee, D.S. and Zinkham, W., Malate dehydrogenase in *ascaris suum*: Characterization, ontogeny, and genetic control. Arch. Biochem. Biophys., 126:574-584, 1968.

1970

Zee, D.S., Isenee, H. and Zinkham, W., Polymorphism of malate dehydrogenase in *ascaris suum*. Biochem. Genet., 4:253-157, 1970.

1974

Zee, D.S., Freeman, J.M. and Holtzman, N. A, Ophthalmoplegia in maple syrup urine disease. J. Pediatrics, 84:113-115, 1974.

Zee, D.S., Friendlich, A. and Robinson, D.A., The mechanism of downbeat nystagmus. Arch. Neurol., 30:227-237, 1974.

Zee, D.S., Griffin, J. and Price, D.L., Unilateral pupillary dilatation during adverse seizures. Arch. Neurol., 30:403-405, 1974.

Engel, W.K. and **Zee, D.S.** Letter: Acupuncture myopathy? (Remembrance of things passed). N Engl J Med, 291:801, 1974 (letter).

1975

Zee, D.S. and Zinkham, W., Demonstration of parasitism in tissues by electrophoretic definition of parasite enzymes in host tissues. J. Pediatrics, 86:408-410, 1975.

Zee, D.S., Cogan, D.G., Robinson, D.A. and Engel, W.K., Analysis of eye movements in members of a family with familial late-onset cerebellar ataxia. Transactions of the American Neurological Association, 100:98-103, 1975.

1976

Zee, D.S., Optican, L., Cook, J.D., Robinson, D.A. and Engel, W.K., Slow saccades in spinocerebellar degeneration. Arch. Neurol., 33:243-251, 1976.

Yee, R.D., Cogan, D.G. and **Zee, D.S.**, Ophthalmoplegia and dissociated nystagmus in abetalipoproteinemia. Arch. Ophthalmol., 94:571-575, 1976.

Zee, D.S., "Dizziness and Vertigo" Chapter 128. In: Harvey, et al., Principles and Practice of Medicine, Appleton-Century-Crofts, 19th Edition, New York, 1976.

Zee, D.S., "Disorders of the Brain Stem". Chapter 129. In: Harvey, et al., Principles and Practice of Medicine, Appleton-Century-Crofts, 19th Edition, New York, 1976.

Zee, D.S., Yee, R.D., Cogan, D.G., Robinson, D.A. and Engel, W.K., Ocular motor abnormalities in hereditary cerebellar ataxia. Brain, 99:207-234, 1976.

Yee, R.D., Trese, M., **Zee, D.S.** and Cogan, D.G., Ocular manifestations of acute pandysautonomia. Amer. J. Ophthalmol., 81:740-744, 1976.

1976 (Cont.)

Zee, D.S., Yee, R.D. and Robinson, D.A., Optokinetic responses in labyrinthine-defective human beings. Brain Res., 113:423-428, 1976.

Yee, R.D., Cogan, D.G., **Zee, D.S.,** Baloh, R. and Honrubia, V., Rapid eye movements in myasthenia gravis. II. Electro-oculographic analysis. Arch. Ophthalmol., 94:1465-1472, 1976.

1977

Zee, D.S. and Yee, R.D., Abnormal saccades in paralytic strabismus. Amer. J. Ophthalmol., 83:112-114., 1977.

Zee, D.S., Suppression of vestibular nystagmus. Ann. Neurol., 1:207, 1977.

Zee, D.S., Disorders of eye-head coordination. In: Eye Movements, eds. B.A. Brooks and F.J. Bajandas, Plenum Press, New York, pp. 9-29, 1977.

Zee, D.S., Yee, R.D. and Singer, H.S., Congenital ocular motor apraxia. Brain, 100:581-589, 1977.

1978

Kasai, T. and **Zee, D.S.,** Eye-head coordination in labyrinthine-defective human beings. Brain Res., 144:123-141, 1978.

Zee, D.S., Ophthalmoscopy in the evaluation of vestibular disorders. Ann. Neurol., 3:373-374, 1978.

Zee, D.S., The organization of the brain stem ocular motor subnuclei. Ann. Neurol., 4:384-385, 1978.

1979

Muratore, R. and **Zee, D.S.,** Pursuit after-nystagmus. Vision. Research, 19:1057-1059, 1979.

Zee, D.S. and Robinson, D.A., A hypothetical explanation of saccadic oscillations. Ann. Neurol., 5:405-414, 1979.

Yamazaki, A. and **Zee, D.S.,** Rebound nystagmus: an electro-oculographic analysis of a case with a floccular tumour. Brit. J. Ophthalmol., 63:782-786, 1979.

Zee, D.S. and Robinson, D.A., Clinical applications of oculomotor models. In: Topics in Neuro-Ophthalmology, Ed. H.S. Thompson, Williams & Wilkens, Baltimore, pp. 266-285. 1979.

1980

Zee, D.S., Leigh, R.J. and Mathieu-Millaire, F., Cerebellar control of ocular gaze stability. Ann. Neurol., 7:37-40, 1980.

Zee, D.S., "Dizziness, vertigo and hearing loss" Chapter 119. In: Harvey, et al., Principles and Practice of Medicine, Appleton-Century- Crofts, 20th Edition, New York. 1980.

Zee, D.S., "Brain stem dysfunction". Chapter 127. In: Harvey, et al., Principles and Practice of Medicine, Appleton-Century- Crofts, 20th Edition, New York, 1980.

Leigh, R.J. and **Zee, D.S.,** Eye movements of the blind. Invest. Ophthalmol., 19:327-331, 1980.

Zee, D.S., Ocular motor control. In: Neuro-Ophthalmology, Vol. 1, Eds. S. Lessell and J.W.T. van Dalen, Excerpta Medica, Amsterdam, pp. 131-145, 1980.

Halmagyi, G., Rudge, P., Gresty, M., Leigh, R.J. and **Zee, D.S.,** Treatment of periodic alternating nystagmus. Ann. Neurol., 8:609-611, 1980.

1981

Zee, D.S., The vestibulo-ocular reflex: clinical concepts. In: Models of Ocular Motor Behavior and Control, Ed. B. Zuber, CRC Press, Long Beach, California, pp. 257-278, 1981.

Leigh, R.J., Robinson, D.A. and **Zee, D.S.**, A hypothetical explanation of periodic alternating nystagmus: instability in the optokinetic- vestibular system. Ann. N. Y. Acad. Sci., 374:619-635, 1981.

Robinson, D.A. and **Zee, D.S.**, Theoretical considerations of the function and circuitry of various rapid eye movements. In: Progress in Ocular Motor Research, Eds. W. Becker and A. Fuchs, Elsevier, Vol. 12, pp. 3-11, 1981.

Gourdeau, A., Miller, N.R., **Zee, D.S.** and Morris, J., Central ocular motor abnormalities in Duane's retraction syndrome. Arch. Ophthalmol., 99:1809-1810, 1981.

Zee, D.S., Yamazaki, A., Butler, P.H. and Gücer, G., Effects of ablation of the flocculus and paraflocculus on eye movements in primate. J. Neurophysiol., 46:878-899, 1981.

Pulaski, P.D., **Zee, D.S.** and Robinson, D.A., The behavior of the vestibulo-ocular reflex at high velocities of head movement. Brain Res., 22:159-165, 1981.

1982

Zee, D.S., Cerebellar control of eye movements. In: Nystagmus and Vertigo: Clinical Approaches to the Patient with Dizziness, Eds. V. Honrubia and M. Brazier, Academic Press, pp. 241-249, 1982.

Leigh, R.J., Newman, S.A., **Zee, D.S.** and Miller, N.R., Visual following during stimulation of an immobile eye (The open loop condition). Vision. Research, 22:1193-1197, 1982.

Zee, D.S., Ocular motor control: the cerebellum. In: Neuro-Ophthalmology, Vol. II, Eds. S. Lessell and J.T.W. van Dalen, Excerpta Medica, Amsterdam, pp. 136-147, 1982.

Zee, D.S. Ocular motor abnormalities related to lesions in the vestibulocerebellum in primate. In: Functional Basis of Ocular Motility Disorders, Eds. G. Lennerstrand, D.S. Zee and E.L. Keller, Pergamon Press, Oxford, pp. 423-430, 1982.

Zee, D.S., Preziosi, T. and Proctor, L., Bechterew's phenomenon in a human patient. Ann. Neurol., 12:495-496, 1982.

Leigh, R.J. and **Zee, D.S.**, The diagnostic value of abnormal eye movements: a pathophysiological approach. The Johns Hopkins Medical Journal, 151:122-135, 1982.

Lennerstrand, G., **Zee, D.S.** and Keller, E.L., eds. Functional Basis of Ocular Motility Disorders, Pergamon Press, Oxford, 1982.

Zee, D.S., Butler, P.H., Optican, L.M., Tusa, R.J. and Gücer, G., Effects of bilateral occipital lobectomies on eye movements in monkeys: preliminary observations. In: Physiological and Pathological Aspects of Eye Movements, Eds. A. Roucoux and M. Crommelinck, The Hague, Dr. W. Junk, pp. 225-232, 1982.

1983

Zee, D.S. and Leigh, R.J., The neural control of eye movements. In: Clinical Neurosciences, Ed. R. Rosenberg, Churchill-Livingstone, New York, Vol. 5, pp. 519-546, 1983.

Leigh, R.J. and **Zee, D.S.**, The Neurology of Eye Movements, Contemporary Neurology Series, F.A. Davis, Philadelphia. First Edition, 1983.

Zee, D.S., Nystagmus in multiple sclerosis. Bull. Soc. Belge Ophal., 208-I:211-217, 1983.

Zee, D.S., Chu, F.C., Leigh, R.J., Savino, P.T., Schatz, N.J., Reingold, D.B. and Cogan, D.G., Blink-saccade synkinesis. Neurology, 33:1233-1236, 1983.

1983 (Cont.)

Zee, D.S. and Leigh, R.J., Disorders of eye movements. In: Neuro-Ophthalmology, Neurological Clinics of North America, Eds. C. Smith and R. Beck, Saunders, Vol. 1, pp. 909-928, 1983.

Hirst, L.W., Clark, A.W., Wolinsky, J.S., **Zee**, D.S., Kaizer, H., Miller, N.R., Tutschka, P.J. and Santos, G.W., Downbeat nystagmus -- A case report of herpetic brain stem encephalitis. J. Clin. Neuro-Ophthalmol., 3:245-249, 1983.

1984

Zee, D.S. and Optican, L.M., Mechanisms of ocular oscillations. In: Tremor, Eds. L. Findley and R. Capildeo, MacMillan Press, Ltd., London, 1984.

Demer, J. and **Zee**, D.S., Vestibulo-ocular and optokinetic deficits in albinos with congenital nystagmus. Invest. Ophthalmol. Vision. Sci., 25:739-745, 1984.

Zee, D.S., New concepts of cerebellar control of eye movements. Otolaryngology - Head and Neck Surgery, 92:59-62, 1984.

Leigh, R.J. and **Zee**, D.S., Episodic vertigo. In: Conn's Current Therapy, 36th Edition, pp. 722-728, 1984.

Zee, D.S. and Leigh, R.J., Brain stem dysfunction. In: Principles and Practice of Medicine, Eds. A.M. Harvey, R.J. Johns, V.A. McKusick, A.H. Owens and R.S. Ross, 21st Edition, Appleton-Century-Crofts, New York, pp. 1242-1249, 1984.

Zee, D.S., Dizziness, vertigo and hearing loss. In: Principles and Practice of Medicine, Eds. A.M. Harvey, R.J. Johns, V.A. McKusick, A.H. Owens, R.S. Ross, 21st Edition, Appleton-Century-Crofts, New York, pp. 1249-1254, 1984.

Zee, D.S., Ocular motor control: cerebral control of saccadic eye movements. In: Neuro-Ophthalmology, Vol. III, Eds. S. Lessell and J.T.W. van Dalen, Excerpta Medica, Amsterdam, pp. 141-156, 1984.

Optican, L.M. and **Zee**, D.S., A hypothetical explanation of congenital nystagmus. Biological Cybernetics, 50:119-134, 1984.

Lisberger, S.G., Miles, F.A. and **Zee**, D.S., Signals used to computer errors in the monkey vestibulo-ocular reflex: possible role of the flocculus. J. Neurophysiol., 52:1140-1153, 1984.

Zee, D.S., Chu, F.C., Optican, L.M. and Carl, J.R., Graphical analysis of paralytic strabismus using the Lancaster red-green test. Am. J. Ophthalmol., 97:587-592, 1984.

Zee, D.S., Treatment of vertigo. In: Current Therapy in Internal Medicine, Eds. T. Bayless, M.C. Brain and R.W. Cherniack, B.C. Decker, Inc., Toronto, 1265-1269, 1984.

Robinson, D.A., **Zee**, D.S., Hain, T.C., Holmes, A.M. and Rosenberg, L.F.: Alexander's law -- Its behavior and origin in the human vestibulo-ocular reflex. Ann. Neurol., 16:714-722, 1984.

1985

Zee, D.S. and Optican, L.M., Studies of adaptation in human ocular motor disorders. In: Reviews of Oculomotor Research, Adaptive Mechanisms in Gaze Control: Facts and Theories, Vol. 1, Eds. A. Berthoz and G. Melvill Jones, Elsevier, pp. 165-176, 1985.

Zee, D.S., Vertigo. In: Current Therapy in Neurologic Disease, Ed. R.T. Johnson, B.C. Decker, Inc., 8-13, 1985.

Zee, D.S. and Leigh, R.J., Eye movement control. In: Scientific Basis of Clinical Neurology, Eds. M. Swash and C. Kennard, Churchill- Livingstone, Edinburgh, pp. 133-149, 1985.

Optican, L.M., **Zee**, D.S. and Chu, F.C., Adaptive response to ocular muscle weakness in human pursuit and saccadic eye movements. J. Neurophysiol. 54:110-122, 1985.

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