



CURRICULUM VITAE
DAVID SAMUEL ZEE

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DEMOGRAPHICS

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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

POSTGRADUATE TRAINING:

1969-70 Intern (Medicine), New York Hospital, Cornell University
1970-73 Resident (Neurology), The Johns Hopkins Hospital

PROFESSIONAL EXPERIENCE:

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
1985- Professor of Neurology (Primary Appointment), Ophthalmology, Otolaryngology and Head
and Neck Surgery, and Neuroscience, The Johns Hopkins University, School of Medicine
1982, 1991, 2005 Sabbatical Leaves, National Eye Institute, N.I.H.

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 Neurological Education, Mayo Clinic, Rochester, Minnesota, 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, Chair, 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 (2000).
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, 2003-06.
Bielschowsky 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
'Master clinician award', Johns Hopkins senior neurology residents, June, 2008.

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, Canada 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, UK 1995
Speaker of the Royal College of Physicians and Surgeons of Canada, Toronto, Canada 1996
Norman Allen Lecture, Ohio State University Medical School, Columbus, 1997.
Inaugural H. Houston Merritt Lecture, American Academy of Neurology, April, 2003.
Professor G. Arjundas Oration, Madras Medical College, Chennai, India, Jan, 2005.
Ramasamy Udayar Oration in Neuroscience, Ramachandra Medical College, Chennai, India, Jan, 2005.
Inaugural Alfred Kestenbaum Lecture, University of Wurzburg, Germany, November, 2005.
'Brain' lectures (National Hospital, Moorefield's Eye Hospital, Charring Cross), London, UK March, 2006.
Hartwell Thompson Lecture, University of Connecticut, May, 2006.
McNally Lecture, McGill University, Montreal, Canada, November, 2008.
Dharmapuri Endowed Lecture, Sankara Nethralaya Eye Hospital, Chennai, India 2009

ADDITIONAL MAJOR INVITED LECTURES:

World Congress of Ophthalmology, Satellite Symposium, Tokyo, Japan 1978
Pediatric Neuroophthalmology Course, Sydney, Australia, 1981
Functional Basis of Ocular Motility Disorders, Stockholm Sweden, 1981
Physiological and Pathological Aspects of Eye Movements, Belgium, 1982
Boorhaven Courses, Leiden, Holland, 1984, 1985
American Neurological Association, Chicago, 1984
Trinational Conference on Motor Control, Tel Aviv, Israel, 1985
Adaptive Processes in Visual and Oculomotor Systems, Asilomar, California, 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, Bloemfontein, South Africa, 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
Hokkaido Neurology Society, Sapporo, Japan, November 1996.
Niigata Ophthalmology Society, Niigata, Japan, November 1996
Neuroophthalmology and Neurootology symposia, Buenos Aires, Argentina December 1996
Neurootology symposium, World Congress of Neurology, Buenos Aires, Argentina 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, Japan 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
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, Seon, 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, Argentina, May 2002
Swiss Neurological Society, Zug, Switzerland, May 2002
Japanese Neuroscience Society, Tokyo, Japan, 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, Germany, October, 2002
German Society for Clinical Neurophysiology - Functional Imaging, Keynote lecture, Lübeck, Germany, Oct 2002
Eye Movement Symposium honoring Ulrich Büttner, 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.
Indian Neurological Society, Chennai, India, January, 2005.
Department of Neurology, Bombay, India, January, 2005
International Neuropsychology Society annual meeting, St. Louis, February, 2005.
Keynote lectures, Korean Balance Society, Seoul, South Korea, June, 2005.
Dept of Psychology and Neuroscience program, Seoul National University, South Korea, June, 2005.
Dept of Neurology, Seoul National University Hospital, South Korea, 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.
Symposium: Cortical control of higher motor cognition, Lübeck, Germany, May, 2006.
European Society Neurology, Satellite symposium: Vestibular disorders, Lausanne, Switzerland, May, 2006.
Symposium in honor of Pr. Dr. Johannes Dichgans, The Neurobiology of Eye Movements, Tübingen, Germany, July, 2006.
International Neuroophthalmology Society, Tokyo, Japan, Nov 2006.
Riken Institute, Tokyo, Japan Nov 2006.
Symposium in honor of Pr. Dr. Klaus Hess, Zurich, Switzerland, Dec 2006

Clinical Neuroscience Update, Calcutta, India, Apr 2007
Mexican Academy of Otolaryngology, Chihuahua, Mexico, May 2007.
Symposium on Neurootology, INEBA (Institute of Neurosciences), Buenos Aires, Argentina, May 2007.
International Congress on Movement Disorders, Expert Course, Istanbul, Turkey, June 2007.
Israeli Neurootology Society, Haifa, Israel, October 2007.
International Teaching Course on Vestibular Disorders, Lisboa, Portugal, November 2007
Symposium on Eye Movements in honor of Jean Buettner-Ennever, London, England, December, 2007.
International Workshop on the Science of Balance Rehabilitation, Phoenix, January, 2008, co-organizer
Barany Society, Satellite symposium, honoring Professor Y. Shinoda, Ohtsu, Japan, April 2008
Barany Society, Teaching course on vestibular disorders, Kyoto, Japan, May 2008.
XXI Congress Panamerican ORL society, Quito, Ecuador, June, 2008
Symposium honouring T. Brandt, Basic and Clinical Aspects of Vertigo and Dizziness, Seon, Germany, June 2008
Singapore Neuroscience Institute and Singapore National Eye Hospital, visiting lectures, Sept 2008
Keynote lecture, Neuroophthalmology Society of Australia, Canberra, Sept. 2008.
German Ophthalmology Society (DOG), Berlin, Germany, Sept. 2008
Recherche en Oculo-Motricité, Nantes, France, Sept, 2008
Symposium on Eye Movements in honor of Albert Fuchs, Ashland, Oregon, Oct 2008
International Neurootology course and meeting, Mexico City, Mexico Oct 2008
Laboratory of Neurophysiology, UCL, Brussels, Belgium Jan 2009 (seminar and also thesis committee)
Neuroophthalmology Update Course, Nethralaya Eye Hospital, Chennai, India, 2009

RESEARCH INTERESTS:

Normal and abnormal ocular motor and vestibular physiology

ACTIVE GRANTS:

N.I.H. Oculomotor Disorders: Clinical and Experimental Study, (1976-2012) EY01849, PI.
N.I.H. Evaluation of Vestibular Function in Ménière's Disease (2002-2009) DC05040, Co-investigator.
N.I.H. Eye Movements of Neurology of Deficient Response Inhibition in ADHD (2005-2009), NINDS 047781, Co-investigator.
N.I.H Motor Learning and Memory in Health and Disease (2008-2012) NS037422-09 (co-investigator)
A-T Children's Project. High resolution MRI Eye Movements, Tremor Quantification and Baclofen Drug Trial: A Multi-Disciplinary Approach to Manage A-T (2005-2009), Supervise 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 (2006-2009). Supervise Fellow
Helena Rubinstein Foundation, Studies of transcranial magnetic stimulation and motor learning
Leon Levy Foundation, Studies of transcranial magnetic stimulation and motor learning

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)
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 (1973-1989, 1997-2008), (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)
Member, Otolaryngology (1990) and Ophthalmology (2002) chair 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 neurootologic 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 (1996-2006)
Course co-director: Vestibular and Auditory Disorders, Johns Hopkins Hospital, March, 1997
Vice-chair for finance, Department of Neurology (1998-2006)
American Neurological Association, Long range planning committee (2002-2004)
Director: The Johns Hopkins Neurology residency selection committee (2005-2007)
American Neurological Association, Faculty development Committee (2006-08)
Member, Committee on Animal Research, Society of Neuroscience (2007-)
Chair, National Eye Institute search committee for an ocular motor clinician scientist (2008)

BOARD CERTIFICATION:

American Board of Psychiatry and Neurology (1976)

TRAINEES (55 postdoctoral fellows, graduate students or visiting scientists have come for a sustained period to work in my clinic or laboratory) A. Yamazaki, R.J. Leigh, S. Gordon, N. Carter, N. Hara, L. Levi, L. Averbuch-Heller, T. Suzuki, E. Frohman, A. Oohira, T. Tsai, T. Hain, J-R. Tian, W. Keys, J. Ventre, C. Tilikete, S. Tan, B. Gaymard, P. Kramer, R Tusa, R. Lewis, J. Ygge, M. Walker, W. Fletcher, G. Peng, G. McKenna, P. Trillenberg, 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, A. Shaikh, H. Chen-Harris, M. Xu, V. Ethier, I.. Hamasaki)

BIBLIOGRAPHY (OVER 360 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 tumor. 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.

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