

**CURRICULUM VITAE
STANLEY CHANG, M.D.**

OFFICE ADDRESS Department of Ophthalmology
Edward S. Harkness Eye Institute
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CITIZENSHIP USA

CERTIFICATION

1975 Diplomate, National Board of Medical Examiners
1979 Diplomate, American Board of Ophthalmology

MEDICAL LICENSURE

New York, Connecticut

EDUCATION AND TRAINING

1964-68: Massachusetts Institute of Technology
Cambridge, Massachusetts
B.S. Electrical Engineering

1968-70: University of Pennsylvania
Philadelphia, Pennsylvania
M.S. Biomedical Electronic Engineering

1970-74: Columbia University College of Physicians & Surgeons
New York, New York
Doctor of Medicine

1974-75: Columbia-Presbyterian Medical Center
New York, New York
Intern, Department of Medicine

1976-78: Massachusetts Eye and Ear Infirmary
Boston, Massachusetts
Resident in Ophthalmology

1978-79: Bascom Palmer Eye Institute/University of Miami
Miami, Florida
Fellow, Vitreoretinal Diseases

ACADEMIC APPOINTMENTS

1974-75 Visiting Clinical Fellow in Medicine
Columbia University College of Physicians and Surgeons
New York, New York

1977-78 Clinical Fellow in Ophthalmology
Harvard Medical School
Boston, Massachusetts

1978-79 Fellow in Vitreoretinal Diseases and Surgery
University of Miami
Miami, Florida

ACADEMIC APPOINTMENTS (continued)

- 1979-81 Assistant Professor of Clinical Ophthalmology
Cornell University Medical College
New York, New York
- 1981-84 Assistant Professor of Ophthalmology
Cornell University Medical College
New York, New York
- 1984-1987 Associate Professor of Clinical Ophthalmology
Cornell University Medical College
New York, New York
- 1987-1992 Associate Professor of Ophthalmology (with tenure)
Cornell University Medical College
New York, New York
- 1993-1994 Professor of Ophthalmology
Cornell University Medical College
New York, New York
- 1995-Present Edward S. Harkness Professor and Chairman of Ophthalmology
Columbia University
New York, New York

HOSPITAL APPOINTMENTS

- 1979-84 Assistant Attending in Ophthalmology
The New York Hospital
New York, New York
- 1984-1992 Associate Attending in Ophthalmology
The New York Hospital
New York, New York
- 1993-1994 Attending in Ophthalmology
The New York Hospital
New York, N.Y.
- 1981-1994 Consultant in Ophthalmology
Memorial-Sloan Kettering Cancer Center
New York, New York
- 1994-present Senior Attending in Ophthalmology
St. Luke's-Roosevelt Hospital Center
New York, New York
- 1996-present Director and Chief of Service, Ophthalmology
New York Presbyterian Hospital – Columbia campus
New York, New York

PROFESSIONAL SOCIETIES

Alpha Omega Alpha
Fellow, American Academy of Ophthalmology
Columbia P & S Alumni Association
Massachusetts Eye & Ear Alumni Association
Bascom Palmer Alumni Association
Associate Member, Research to Prevent Blindness
Chinese American Medical Society
New York State Medical Society
New York Society for Clinical Ophthalmology
Chinese American Ophthalmological Society
American Society for Ophthalmic Ultrasound
American Eye Study Club
Association for Research in Vision and Ophthalmology
Pan American Association of Ophthalmology
The Retina Society
Club Jules Gonin
The Vitreous Society
The Macula Society

HONORS AND AWARDS

1968-70 Ford Foundation Fellowship, University of Pennsylvania
1974 Alvin M. Behrens Award for Ophthalmology, Columbia Univ.
1974 Alpha Omega Alpha, Columbia University
1987 Service Certificate, American Academy of Ophthalmology
1988 Honor Award, American Academy of Ophthalmology
1989 Listed, Directory of Outstanding Medical Specialists in the U.S.,
Town and Country Magazine
1991 Listed, Best Doctors in America
1991 Listed, The Best Doctors in New York, New York Magazine
1991 David and Mary Seslen Lecture, Washington University Medical Center, St. Louis, MO.
1992 Hermann Wacker Prize, Vienna, Austria. Awarded biennially by the Club Jules Gonin, an
international retinal society, for the most innovative contributions to vitreoretinal disease
1992 Harvey B. Taterka Memorial Lecture, New York University School of Medicine, New York, NY
1993 John Milton McLean Medal, Cornell University Medical College, New York, N.Y.
1993 A. Raymond Pilkerton Lecture, Georgetown University, Washington, D.C.
1993 Ronald G. Michels Lecture, The Retina Institute of Maryland, Baltimore, Maryland.
1993 First G.B. Bietti International Foundation Award, Rome, Italy. Awarded for outstanding
contributions to retinal research.
1993 Keynote Address, Sankara Nethralaya Alumni Association, Bombay, India.
1993 Scientific Achievement Award, Escalon, Inc., New Brunswick, N.J.
1994 Delmar Nachazel Lecture, Beaumont Hospital, Royal Oak, MI.
1995-present Listed, Best Doctors in America
1995 Listed, America's Best Doctors, America's Health Magazine
1996-present Listed, The Best Doctors in New York, New York Magazine
1997 G. Victor Simpson Lecture, Washington Hospitals Center, Washington D.C.
1997 Arthur J. Bedell Lecture, Wills Eye Hospital, Philadelphia, PA.
1998 Senior Honor Award, American Academy of Ophthalmology
1998 Taylor R. Smith Lecture, Aspen Retinal Detachment Society, Aspen, CO.
1998 W.H. Helmerich III Award, Vitreous Society
1998 A. Gerard DeVoe Lecture, Columbia University, New York, NY.
1999 Alcon Research Institute Award
1999 Scientific Achievement Award, Chinese American Medical Society, New York, NY.
2000 Everett Goar Lecture, Houston Ophthalmological Society, Houston, TX.
2000 Harold Gifford Lecture, University of Nebraska, Omaha, NE.
2000 Award, Conselho Brasileiro de Oftalmologia, Sao Paulo, Brazil
2000-present America's Top Doctors, Castle-Connolly Guide

HONORS AND AWARDS (continued)

2001 D. Jackson Coleman Lecture, Weill-Cornell Medical College, New York, NY.
2001 Phillip T. Ellis Lecture, University of Colorado, Denver, CO.

2002 Roscoe Kennedy Lecture, Cleveland Clinic Foundation, Cleveland, OH.
2002 Edward W.D. Norton Lecture, University of Miami, Miami, FL.

PATENTS

United States Patent 5,037,384. Method and Apparatus for the Treatment of Complicated Retinal Detachments. Issued Aug. 6, 1991. Assigned to Cornell Research Foundation.
United States Patent 5,318,560. Inventors: Blount GA, Chang S, Easley JC, Scheller GD. Laser Delivery System. Issued Jan. 7, 1994. Assigned to Surgical Technologies, Inc.

HOSPITAL COMMITTEES

1979-83 Formulary and Therapeutics Committee, The New York Hospital
1986-93 Operating Room Committee, The New York Hospital
1981-83 Director of Residency Training, Department of Ophthalmology, The New York Hospital-Cornell University Medical College
1979-93 Residency Selection Committee, Department of Ophthalmology
The New York Hospital-Cornell University Medical Center
1982-94 Eye Clinic Day Chief, The New York Hospital
1987 Program Chairman, Cornell Ophthalmology Alumni Meeting
1990-94 Founder and Program Chairman, D. Jackson Coleman Visiting Professorship
1992-94 Director, Vitreoretinal Fellowship, Cornell University Medical Center
1994 Search Committee, Department of Otolaryngology, Cornell University Medical College

EXTRAMURAL PROFESSIONAL RESPONSIBILITIES

1986-1991 Board of Directors, Chinese American Medical Society
1986-1987 Secretary-Treasurer, Chinese American Medical Society
1988-1989 Vice President, Chinese American Medical Society
1990-1991 President, Chinese American Medical Society
1981-1990 Consultant, Dept. of Social Services, New York State
1986-present Medical Advisory Board, National Association for the Visually Handicapped
1988-present Associate Examiner, American Board of Ophthalmology
1989-present Editorial Advisory Board, Vitreoretinal Surgery and Technology
1990 Recording Secretary, New York Society for Clinical Ophthalmology
1991-1993 Chairman, Membership, New York Society for Clinical Ophthalmology
1993-1994 Program Chairman, New York Society for Clinical Ophthalmology
1994-1995 President, New York Society for Clinical Ophthalmology
1991-present Editorial Board, Journal of Vitreo Retina
1991-present Vitreoretinal Advisory Council, Alcon Surgical Inc.
1993-1998 Monographs Committee, American Academy of Ophthalmology
1994-1997 Executive Committee, The Retina Society
1994-1999 Program Committee, Retina Subspecialty Day, American Academy of Ophthalmology
1995-Present Editorial Board, Ophthalmic Surgery and Lasers
1994-1996 Executive Committee, Suncoast Retina Research Forum
1994-1995 Organizing Committee, 1996 Vail Vitrectomy Meeting
1995 Organizing Committee, Silicone Oil Surgery: A Multi-center Course
1997-Present Chair, Retina Society Travel Award Committee
1998-Present Member, Program Advisory Committee, American Academy of Ophthalmology
1998-1999.1 Co-chair, Retina Subspecialty Day, American Academy of Ophthalmology
1999-present Editorial Board, American Journal of Ophthalmology
1999-present Editorial Board, Retina
2000-present Data Safety and Monitoring Committee, Novartis
2000-present Co-Editor, Vitreoretinal Surgery and Technology Newsletter

PREVIOUS RESEARCH SUPPORT

Coinvestigator, Ultrasonic Evaluation of Ocular Tissues, NEI Grant 5 RO1 EY03183-03, Principal Investigator: D. Jackson Coleman M.D., 5/1/80-6/30/84, Total direct costs: \$495,298, 8-10% effort.

Coinvestigator, Therapeutic Ultrasound in Ophthalmology, NEI Grant 5 RO1 EY03174-05, Principal Investigator: D. Jackson Coleman M.D., 5/1/80-6/30/84, Total direct costs: \$349,463, 8-10% effort.

Coinvestigator, Diabetes Control and Complications Trial, NIADDK Grant 5U01AM30627-2, Principal Investigator: Lois G. Jovanovic, M.D., Total direct costs: \$202,884, 3/1/82- 6/30/86, 15% effort.

Principal Investigator, Diabetic Retinopathy during Pregnancy, Juvenile Diabetes Foundation Grant 184159, Total costs: \$53,190, 8/1/84-3/31/87.

Principal Investigator, Vitreous Replacement with Liquid Fluorochemicals, NIH Grant 2 SO7 RR05396-24, Total costs \$5000, 1/1/86-12/31/86.

Principal Investigator, Vitreous Replacement with Liquid Fluorochemicals, NEI Grant 1 RO1 EY05982-01A1, Total direct costs: \$290,099, 7/1/86-6/30/89.

Coinvestigator, Experimental Studies of Vitreous Replacement, NEI Grant RO1 EY09745-01, Principal Investigator: Janet R. Sparrow, Ph.D., Total direct costs: \$243,568, 9/30/92-9/29/95, 5% effort.

Co-investigator, Effect of aminoguanidine on vascular complications of diabetes. Clinical investigation sponsored by Geritech, Inc.

Co-investigator, Diabetes Control and Complications Trial (DCCT), NIH Grant 2 UO1 DK30627-04, Principal Investigator: Robert Campbell, M.D., Total direct costs: \$3,049,069, 7/1/86-6/30/93.

Principal Investigator, Perfluorocarbon liquids in vitreoretinal surgery. Clinical investigation of perfluorocarbon liquids in the management of complicated retinal detachments. Protocol approved by the Cornell Committee on Human Rights in Research.

Co-investigator, Perfluorocarbon gases in retinal detachment. Clinical investigation of expansile gases in vitreoretinal surgery. Protocol approved by the Cornell Committee on Human Rights in Research.

Director, Vitreous Research Fund, Cornell University Medical College.

Current projects include vitreous replacement in experimental models of retinal detachment, studies of the mechanisms for ocular proliferation in retinal detachment, and studies of biologic interactions of ocular tissues with vitreous replacements.

Principal Investigator, Perfluoron: an intraoperative adjunct in complicated retinal detachments. Clinical investigation of perfluoro-n-octane as an intraoperative tool during vitreoretinal surgery. Protocol approved by the St. Luke's-Roosevelt Hospital IRB under IDE from Infinitech, Inc.

Principal Investigator, Silicone oil in complicated retinal detachment. Clinical investigation of silicone oil for advanced forms of retinal detachment. Protocol approved by the St. Luke's-Roosevelt Hospital IRB under IDE from Richard James Corp.

Ophthalmologist, Effect lipid lowering on diabetic retinopathy. Clinical investigation of lipid lowering agents on diabetic retinopathy. Supported by a grant from Squibb to the Rogosin Institute.

Visudyne Expanded Access Study (VAM), Novartis

CURRENT CLINICAL TRIALS

Oculex Protocol DC 103-06-02: A phase 2 Randomized, multicenter, dose-ranging, controlled, parallel-group trial to assess the safety and efficacy of dexamethasone posterior segment drug delivery system (DEX PS DDS) in the treatment of persistent macular edema. Oculex Pharmaceuticals, Sunnyvale, CA

A safety and efficacy assessment of chimeric ribozyme to PCNA to prevent recurrence of proliferative vitreoretinopathy. Immusol, Inc. San Diego, CA

COURSE INSTRUCTION

Ultrasonography of the Eye and Orbit. Director: D. Jackson Coleman M.D.
Columbia University, New York, N.Y. 1978
Cornell University Medical College, New York, N.Y. 1979-1991 (annually).

American Academy of Ophthalmology Annual Meeting
Ultrasonography of the Eye and Orbit-1979-1984
Vitreotomy and Trauma-1980-1984
Diagnostic Imaging of the Eye and Orbit-1985-1993
Intraocular Lesions Simulating Malignant Melanoma-1982
Perfluorocarbon Gases and Episcleral Balloons in the Management of
Retinal Detachment-1984-1991
Vitreoretinal Surgery: Case Presentations and Discussion-1990-1993
Advanced Surgery and Management of for the Vitreoretinal Surgeon-1991- 1993.

Joint Commission for Allied Health Professionals in Ophthalmology, Annual Meeting
Ultrasonography of the Eye and Orbit, 1983-1984
Diagnostic Imaging of the Eye and Orbit, 1985-1990

Basic Science Course in Ophthalmology. Directors: Manuel Miranda-Rivera M.D., Jose A. Berrocal M.D., William Townsend, M.D. University of Puerto Rico, San Juan P.R. 1982-1990.

Contact B-scan Ultrasonography for the Clinician. Directors: Yale Fisher M.D. and Nathaniel Bronson III M.D., Manhattan Eye, Ear and Throat Hospital, New York, N.Y. 1980- 1984.

Diabetes Mellitus: Means to Normoglycemia. Director: Lois Jovanovic M.D. and Charles Peterson M.D. Cornell University Medical College, New York, N.Y. 1982- 1984.

Ophthalmologische Ultraschalldiagnostik. Director: Werner Buschmann M.D. University of Wurzburg, Wurzburg, Germany 1981.

Ultrasound Investigations in Ophthalmology. International School of Ultrasonology, Erice-Trapani, Italy, 1982.

Primer Curso International de Ecografia Integral. Director: Freddy Guevara M.D. Caracas, Venezuela, 1983.

Anterior and Posterior Vitrectomy Techniques for the General Ophthalmologist. Director: Jeffrey Shakin M.D. Manhattan Eye Ear and Throat Hospital, New York, N.Y., 1983-1984.

Ophthalmic Ultrasonography. Director: Sam Guillory M.D., Mount Sinai Medical Center, New York, New York, April 6, 1984.

Perfluorocarbon gases. Vitreous Surgery Course Director: David Karlin, M.D., Manhattan Eye, Ear and Throat Hospital, New York, New York, June 7, 1985.

Advanced Vitreous Surgery Course. Directors: Allan Krieger M.D., and Yossi Sidikaro M.D., Jules Stein Eye Institute, University of California at Los Angeles, January 16-18, 1986.

COURSE INSTRUCTION (continued)

American Academy of Ophthalmology, Regional Update Course, Retinal section, Washington, D.C., April 3-4, 1987.

Advanced Vitreous Surgery Course. Directors: Allan Krieger M.D., Maurice Landers III, M.D., Yossi Sidikaro, M.D., Jules Stein Eye Institute, University of California at Los Angeles, February 26-27, 1988.

Pan American Association of Ophthalmology: Second North American Course, Orlando, FL, May 26-29, 1988.

Primer Curso Internacional de Vitrectomia y Cirugia de Retina. Director: Raphael Cortez, M.D., Venezuelan Ophthalmology Society, July 17-20, 1988.

Advanced Vitreoretinal Surgery. Director: Miguel Arcacha M.D., Sarasota, Florida, February 9-11, 1989.

Curso Basico de Oftalmologia. Directors: William Townsend, M.D., Jose Berrocal, M.D., University of Puerto Rico, San Juan, Puerto Rico. April 6-7, 1989.

Cornell Advanced Vitreous Surgery Course. Directors: Stanley Chang, M.D., D. Jackson Coleman, M.D., Cornell University Medical College, New York, June 8-10, 1989.

Advanced Vitreous Surgery Course. Director: Jay Federman M.D., Wills Eye Hospital, Philadelphia, PA, October 6-7, 1989.

Duke Advanced Vitreous Surgery Course. Director: Brooks McCuen II, Duke University, Durham, NC, April 19-21, 1990.

Pan American Association of Ophthalmology: Third North American Course, Orlando, FL, May 24-27, 1988.

Jules Stein Advanced Vitrectomy Workshop. Directors: Allan E. Kreiger, M.D., Hilel Lewis, M.D., UCLA School of Medicine, Los Angeles, California, January 11-12, 1991.

Indicazioni al Trattamento Parachirurgico e Chirurgico della Patologia Vitreo-retinica: Come e Quando Intervenire. Director Leonardo Falco, M.D., Firenze, Italy, March 22, 1991.

Medical College of Wisconsin Advanced Vitreoretinal Surgery Symposium. Director: William F. Mieler, M.D., Milwaukee, Wisconsin, July 25-27, 1991.

Curso de Innovaciones Vitreo-retina. Director: Borja Corcostegui, M.D., Universidad Autonoma, Barcelona, Spain, November 15-16, 1991.

Medical and Surgical Retina in the 1990's. Directors: Hilel Lewis, M.D. and Stephen Ryan, M.D. University of California at Los Angeles, Los Angeles, CA, September 11-12, 1991.

Advanced Vitreoretinal Surgery Course. Directors: Hugo Quiroz-Mercado, M.D. and Hilel Lewis, M.D., Hospital Asociacion para Evitar la Ceguera en Mexico "Dr. Luis Sanchez Bulnes" (Universidad Autonoma de Mexico) and Jules Stein Eye Institute (University of California at Los Angeles), Puerto Vallarta, Mexico, February 20-22, 1992.

Cornell Advanced Vitreous Surgery Course. Director: Stanley Chang, M.D., Cornell University Medical College, New York, N.Y., July 3-4, 1992.

XX Annual Course of Fundacion Oftalmologica Argentina Jorge Malbran, Director: Enrique Malbran, M.D., Buenos Aires, Argentina, October 4-8, 1992.

COURSE INSTRUCTION (continued)

International course on Internal Tamponade in Vitreoretinal Surgery, Director: Prof. E. Dal Fiume, M.D., Department of Ophthalmology, "S. Maria delle Croci" Hospital, Ravenna, Italy, October 31- November 1, 1992.

Perfluorocarbons in Vitreoretinal Surgery, Director: Mark Blumenkranz, M.D., Department of Ophthalmology, Stanford University School of Medicine, Palo Alto, CA, January 16, 1993.

Advanced Vitreous Surgery Course, Directors: William Smiddy, M.D. and Harry Flynn, M.D., Bascom Palmer Eye Institute, Palm Beach, FL. March 25-27, 1993.

Advanced Vitreous Surgery Course, Directors: Relya Zivojnovic M.D. and Carl Claes M.D., Antwerp, Belgium, April 7-9, 1993.

Subretinal Surgery Seminar, Course Director: Stanley Chang, M.D., Cornell University Medical College, New York, N. Y., August 21, 1993.

First International Advanced Vitreoretinal Surgery Course, Director: S. Natarajan, M.D., Aditya Jyot Research Foundation, Bombay, India, October 19-21, 1993.

New Dimensions in Retina, Director: Kirk Packo, M.D., Rush Presbyterian - St. Luke's Medical Center, Chicago, Illinois, November 11-13, 1993.

Panoramic Viewing in Vitreoretinal Surgery. Directors: B. Billi, M.D. and G. Lesnoni, M.D., G.B. Bietti Foundation, Rome, Italy, November 18, 1993.

Advanced Vitreoretinal Surgery Course. Director: Jay S. Duker, M.D. Department of Ophthalmology, Tufts-New England Medical Center, Maui, Hawaii, January 22-29, 1994

What is Now Possible in the Management of Vitreoretinal Diseases. Director: David Lozano-Rechy, M.D., Mexico City, Mexico, March 16-19, 1994

Vitreoretinal Update for the Comprehensive Ophthalmologist. Directors: Peter Liggett, M.D. and Stanley Chang, M.D., Jointly sponsored by Departments of Ophthalmology, Yale University School of Medicine and Cornell University Medical College, Newport, R.I., May 13-15, 1994.

Fondacion Oftalmologica Los Andes: Vitreo/Retina Curso Anual 1994, Directors: Santiago Ibanez, M.D. and Christian Carpentier, M.D., Santiago, Chile, June 2-7, 1994.

Vitreoretinal Interfaces. Directors: Everett Ai, M.D., Mark Blumenkranz, M.D., Alexander Irvine, M.D., San Francisco, CA, October 28-29, 1994.

Advanced Vitreous Surgery Course. Directors: Relya Zivojnovic, M.D. and Carl Claes, M.D., Middleheim Hospital, Antwerp, Belgium, April 23-26, 1995.

Panoramic Viewing in Vitreoretinal Surgery. Directors: Bernardo Billi, M.D. and Guido Lesnoni, M.D., Bietti Foundation, Rome, Italy, April 29, 1995.

Advanced Vitreoretinal Symposium. Director: Thomas Conner, Jr. M.D. Medical College of Wisconsin, Kohler, WI, July 20-21, 1995.

Panoramic Viewing in Vitreoretinal Surgery. Directors: Stanley Chang, M.D. and Mark Blumenkranz, M.D., St-Luke's-Roosevelt Hospital Center, New York, NY, September, 29, 1995.

Silicone Oil Surgery: A Multicenter Course: Directors: Jay Federman M.D. and Stanley Chang, M.D., St.-Luke's-Roosevelt Hospital Center, New York, NY, September 30, 1995.

COURSE INSTRUCTION (continued)

Advanced International Course in Vitreoretinal Surgery - "Oil vs. Gas" . Directors: Emilio Ballestrazzi, M.D. and Michaela Marullo, M.D., University of L'Aquila, L'Aquila, Italy, October 4-7, 1995.

The Cutting Edge. Pre Academy Retina Course. Directors: Thomas Aaberg, M.D. and Paul Sternberg, M.D. American Academy of Ophthalmology, Atlanta, GA, October 27-28, 1995.

Panoramic Viewing in Vitreoretinal Surgery. Directors: Mark Blumenkranz M.D. and Stanley Chang, M.D., Department of Ophthalmology, Stanford University San Francisco, CA, December 8, 1995.

Silicone Oil Surgery: A Multicenter Course: Directors: Jay Federman, M.D. and Mark Blumenkranz, M.D., Stanford University, San Francisco, CA, December 9, 1995.

Duke Advanced Vitrectomy Course, Director: Glenn Jaffee, M.D., Duke University, Durham, NC, April 18-21, 1996.

Retina Subspecialty Day, Pre Academy of Ophthalmology, 1996-2001

PRESENTATIONS

Chang S, Geselowitz DB, Langner PA, Briller SA Computer-aided studies of high frequency electrocardiography. Cardiac Electrophysiological Group, Atlantic City, NJ, May 2, 1971.

Chang S, Abramson DH, Coleman DJ, Smith ME Pilocarpine-induced lens changes: an ultrasonic evaluation of dose-response. Association for Research in Vision and Ophthalmology, Sarasota, FL, April 26, 1974.

Dallow RL, Chang S Ultrasonic diagnosis of choroidal melanoma. New England Ophthalmological Society, Boston MA, November 16, 1977.

Valone JA, Chang S Blowout fractures: experience at the Massachusetts Eye and Ear Infirmary, New England Ophthalmological Society, Boston, MA, March 22, 1978.

Chang S Case presentation: Double perforating ocular injury. New England Ophthalmological Society, Boston, MA, March 22, 1978.

Chang S, Abrams GW Quantitative evaluation of vitreous membranes utilizing a simultaneous A- and B-scan system. 15th Annual Residents' Day, Bascom Palmer Eye Institute, Miami, FL, June 9, 1979.

Chang S, Abrams GW Ultrasonic tumor patterns: a comparative study. American Society of Ophthalmic Ultrasound, San Francisco, CA, November 7, 1979.

Chang S Kinetic B-scanning. Ophthalmic Ultrasonography seminar. Wills Eye Hospital, Philadelphia, PA, December 8, 1979.

Chang S Ultrasonography of the macula. Edward S. Harkness Eye Institute, New York, NY, January 5, 1980.

Chang S, Ellsworth RM Retinal angiomas. New York Academy of Medicine, New York, NY, March 17, 1980.

Chang S Ultrasonography of vitreoretinal disease. University of Maryland, Baltimore, MD, October 7, 1980.

Chang S, Coleman DJ, Lizzi FL Therapeutic ultrasound in the treatment of experimental ocular tumors. American Society of Ophthalmic Ultrasound, Chicago, IL, November 5, 1980.

Visiting Professor, Cleveland Clinic, Cleveland, OH, January 28-9, 1981.

PRESENTATIONS (continued)

Grand Rounds, St. Vincent's Hospital, New York, NY, May 15, 1981.

Chang S, Coleman DJ, Lizzi FL Therapeutic Ultrasound. Cornell University/Manhattan Eye and Ear Alumni Meeting, New York, NY, May 23, 1981.

Chang S Angioid streaks in Thalassemia. Atlantic Coast Fluorescein Club, Baltimore, MD, December 2, 1981.

Tight glucose control and diabetic retinopathy, Grand Rounds, Department of Ophthalmology, Cornell University Medical College, New York, NY, January 12, 1982.

Ultrasonography of vitreoretinal diseases.
Ultrasound diagnosis of ocular tumors.
Glucose control and diabetic retinopathy.
Albany Medical College, Albany, NY, March 3, 1982.

Therapeutic ultrasound. North Shore University Hospital, Manhasset, NY, March 30, 1983.

Treatment of macular holes with retinal detachment. Cornell University Alumni Meeting (Ophthalmology), June, 1982.

Therapeutic ultrasound. Grand Rounds, St. Lukes Hospital Center, New York, NY, November 17, 1982.

Perfluorocarbon gases in massive periretinal proliferation. Vail Vitrectomy Symposium, Vail, CO, March 14, 1983.

Treatment of retinal detachment in morning glory syndrome. American Eye Study Club, Boca Raton, FL, April 5, 1983.

Perfluoropropane in complicated retinal detachment. New England Ophthalmological Society, Boston, MA, April 20, 1983.

Ultrasonic treatment of experimental ocular carcinoma. Association for Research in Vision and Ophthalmology, Sarasota, FL, May 5, 1983.

Perfluoropropane in proliferative vitreoretinopathy. Cornell University Alumni Meeting (Ophthalmology), New York, NY, May 20, 1983.

Ultrasonography of vitreoretinal diseases.
Advances in the diagnosis and treatment of choroidal melanoma.
International Congress on Retinal Diseases, Taipei, Taiwan, August, 1983.

Perfluorocarbon gases in vitreous surgery.
Advances in ultrasonic diagnosis and treatment of choroidal melanoma.
Pittsburgh Ophthalmology Society, Pittsburgh, PA, September 22, 1983.

Perfluorocarbon gases in vitreous surgery. Grand rounds, St. Vincent's Hospital, New York, NY, December 9, 1983.

Therapeutic Ultrasound.
Perfluorocarbon gases in vitreoretinal surgery.
Utah Ophthalmological Society, Park City, Utah, February 20-24, 1984.

Perfluorocarbon gases in vitreoretinal surgery. New England Ophthalmological Society, Boston, MA., April 10, 1984.

PRESENTATIONS (continued)

Diabetic retinopathy during pregnancy. Cornell Ophthalmology Alumni Meeting, New York, N.Y., May 3, 1984.

The role of gases on vitreoretinal surgery. Grand Rounds, Department of Ophthalmology, New York University, New York, New York, May 16, 1984.

Hyperthermia of experimental choroidal melanoma. Bascom Palmer Eye Institute Residents' Day, Miami, Florida, June 21-23, 1984.

Perfluorocarbon gases in vitreous surgery. Grand Rounds, Lenox Hill Hospital, New York, New York, September 6, 1984.

Perfluoropropane in the management of proliferative vitreoretinopathy. Club Jules Gonin, Lausanne, Switzerland, September 26, 1984.

Case presentation. SCOFF Meeting, Atlanta, Georgia, November 11, 1984.

Relationship of blood glucose control to diabetic retinopathy. Grand Rounds, Department of Medicine, The New York Hospital, January 11, 1985.

Therapeutic ultrasound in the management of glaucoma. Michigan Ophthalmology Society, Detroit, Michigan, February 21, 1985.

Perfluorocarbon gases in vitreous surgery. Moorfields Eye Hospital, London, England, March 27, 1985.

Surgical management of diabetic retinopathy. American College of Surgeons-Clinical Day. The New York Hospital, New York, N.Y., June 7, 1985.

Pregnancy, retinopathy, normoglycemia: A preliminary analysis. American Diabetes Association annual meeting, Baltimore, MD, June 16, 1985.

Perfluorotributylamine vitreous replacement. Bascom Palmer Residents' Day, Miami, Florida, June 20-22, 1985.

Project Orbis, Shanghai, Peoples' Republic of China, July 1-5, 1985.

Gases for vitreoretinal surgery. Department of Ophthalmology, Capital Medical Center, Beijing, Peoples' Republic of China, July 10, 1985.

Outpatient fluid-gas exchange and perfluorocarbon gases. New Jersey Retinal group, Belleville, New Jersey, September 18, 1985.

Case presentation. SCOFF meeting, San Francisco, California, September 29, 1985.

Diabetic retinopathy in adolescents. Grand Rounds. Cornell University Medical College, New York, N.Y. October 24, 1985.

Lasers in ophthalmology. Chinese American Medical Society annual meeting, New York, New York, November 9, 1985.

Management of choroidal expulsive hemorrhage.
Liquid Fluorochemicals
Vail Vitrectomy Seminar, Vail CO, 3/9/86-3/15/86.

PRESENTATIONS (continued)

Second pregnancy and diabetic retinopathy.
Experimental vitreous replacement with perfluorotributylamine.
Cornell Ophthalmology Alumni Meeting, New York NY, 5/16-17/86.

Intraoperative use of liquid fluorochemicals. Club Jules Gonin, Copenhagen, Denmark, August 10, 1986.

Practical management of diabetic retinopathy. Booth Memorial Hospital, Queens, NY, September 9, 1986.

Management of choroidal expulsive hemorrhage with staged surgery. The Retina Society, Colorado Springs, CO, September 19, 1986.

Fluorocarbon gases and liquids in vitreous surgery. Massachusetts Eye and Ear Infirmary, Boston, MA, October 27, 1986.

Choroidal tuberculoma. SCOFF meeting, New Orleans, LA, November 9, 1986.

Diabetic retinopathy during pregnancy. Journal club, Bethesda Naval Hospital, Bethesda, MD, February 27, 1987.

Alternatives to scleral buckling in the management of retinal detachment, Washington Hospitals Center, Washington, D. C., February 28, 1987.

Hydrokinetic retinal manipulation using liquid perfluorocarbons, The Retina Society, Bermuda, September 29, 1987.

The management of retinal detachment with moderate proliferative vitreoretinopathy, American Academy of Ophthalmology Annual Meeting, Dallas, Texas, November 10, 1987.

New vitreous substitutes.
Retinal detachment: alternative approaches.
Expulsive choroidal hemorrhage: staged management.
Teaching Day, Albany Medical College, Albany, N.Y., February, 4, 1988.

Management of complicated retinal detachments, Ophthalmology Grand Rounds, New York University, New York, N.Y., February 10, 1988.

Vitreous surgery for complicated retinal detachments, Ophthalmology Grand Rounds, Cornell University Medical College, New York, N.Y., February 11, 1988.

Perfluorocarbon liquids for proliferative vitreoretinopathy, Cornell Ophthalmology Alumni Meeting, New York, N.Y., May 13, 1988.

Management of retinal detachment secondary to macular holes. The Retina Society, Philadelphia, PA., June 18, 1988.

Intraoperative perfluorocarbon liquids in the management of severe proliferative vitreoretinopathy, International Symposium on PVR, Cologne, Germany, September 2, 1988.

Perfluorocarbon Liquids in the management of giant retinal tears. XVIth meeting of the Club Jules Gonin, Brugges, Belgium, September 5, 1988.

Perfluorocarbon liquids in the management of traumatic retinal detachments. American Academy of Ophthalmology Annual Meeting, Las Vegas, NV, October 9, 1988.

Complications of Retinal Detachment Surgery. New York Society for Clinical Ophthalmology Annual Meeting, New York, N.Y., October, 29, 1988.

PRESENTATIONS (continued)

Diabetic retinopathy during pregnancy. Chinese American Medical Society Annual Meeting, Boston, MA, November 12, 1988.

Perfluorocarbon liquids in the management of severe proliferative vitreoretinopathy. The Vitreous Society, Scottsdale, AZ, December 2, 1988.

Experimental vitreous replacement with perfluorocarbon liquids. Residents' Days Meeting - Bascom Palmer Eye Institute, Miami, Florida, February 24-25, 1989.

Management of 360 degree retinal disinsertion with perfluorocarbon liquids. Short term ocular tolerance of perfluorocarbon liquids.
Vail Vitreoretinal Seminar, Vail, Colorado, March 12-17, 1989.

Cystoid macular edema following macular pucker surgery. Retinal Charter Club, St. Thomas, VI, April 16-23, 1989.

Vitreoretinal Surgery (various topics). Project Orbis, Beijing, Peoples' Republic of China, April 30-May 6, 1989.

Pneumatic Retinopexy. Retina Society of New Jersey Meeting, Belleville, New Jersey, May 17, 1989.

Surgical techniques in giant retinal tears.
Combined meeting of The Retina Society and The Macula Society, Boston, Massachusetts, June 21-25, 1989.

Combined central retinal artery and vein occlusion after pneumatic retinopexy.
SCOFF meeting, New Orleans October 29, 1989.

Perfluorocarbon Liquids. Pharmacia Ophthalmics AB, Uppsala, Sweden, November 11-14, 1989.

Staged management of expulsive choroidal hemorrhage.
New approaches to the management of giant retinal tears.

Ocular trauma: Assessment and rationale for treatment.
Diabetic vitrectomy: indications, results and complications.
Puerto Rico Ophthalmology Society Annual Meeting, Hyatt Cerromar, Puerto Rico, November 18-20, 1989.

Vitrectomy for Diabetic Retinopathy. Grand Rounds, New York University Department of Ophthalmology, New York, NY, December 6, 1989.

Selection of gases for vitreoretinal surgery.
Perfluorocarbon liquids in PVR and giant tears.
Is pneumatic retinopexy a viable procedure?
Aspen Retinal Detachment Society, Aspen CO, March 3-9, 1990.

Program Moderator, Association for Research in Vision and Ophthalmology, Sarasota, Florida, April 29-May 4, 1990.

Results and complications of perfluorocarbon liquids in PVR. Club Jules Gonin, Lausanne, Switzerland, September 1-6, 1990.

PFCL and silicone oil in giant retinal tears.
First European meeting on perfluorocarbon liquids in vitreoretinal surgery. Centre Hospitalier National D'Ophthalmologie des Quinze- Vingts, Paris, France, September 7, 1990.

PRESENTATIONS (continued)

Management of posterior penetrating trauma.
Perfluorocarbon liquids in giant retinal tears.
Horizons in Ophthalmology. The University of Illinois at Chicago, Chicago, Illinois, September 14-15, 1990.

Selection of gas in vitreous surgery.
Perfluorocarbon liquids in vitreous surgery.
Atlantic Vitreoretinal Surgery Study Group, The Retina Center, Towson, Maryland, October 19-20, 1991

Discussant of papers: 1) Perfluorooctane and modified fluid-gas exchange for giant retinal tears in severe retinopathy; and 2) Vitreon - a new perfluorocarbon vitreous substitute.
American Academy of Ophthalmology Annual Meeting, Atlanta, Georgia, November 1, 1990.

Strategy and timing in the management of penetrating trauma.
Perfluorocarbon liquids update.
Selection of gases for the vitreoretinal surgeon.
Staged management of expulsive choroidal hemorrhage.
Tenth Squaw Valley Retinal Symposium, Squaw Valley, California, February 3-7, 1991.
Properties of perfluorocarbon liquids.
Surgical techniques for perfluorocarbon liquids.
Alternate approaches to scleral buckling.
Sarasota Vitreoretinal Update, Florida, March 1-2, 1991.

Treatment of giant retinal tears with perfluorocarbon liquids and air tamponade
Eye Ball traumatology using perfluorocarbon liquids.
Complications of perfluorocarbon liquids.
Management of subretinal gas with perfluorocarbon liquid.
Evaluation of subretinal membranes using perfluorocarbon liquids.
Corso su: Perfluorocarbonata Liquido in Chirurgia Vitreoretinica. Ospedale Civile S. Maria Delle Croci, Ravenna, Italy, March 23, 1991.

New intravitreal agents.
Evaluation and management of vitreous hemorrhage.
Surgical management of severe proliferative diabetic retinopathy.
The Diabetic Eye. Medical College of Virginia, Williamsburg, VA, April 12-14, 1991.

Management of giant retinal tears using perfluorocarbon liquid. Biennial Alumni Meeting, Manhattan Eye, Ear and Throat Hospital, New York, New York, May 11, 1991.

Management of ocular trauma. Pediatric Grand Rounds-The New York Hospital, New York, May 22, 1991.

Perfluorocarbon liquids in PVR.

Complications of perfluorocarbon liquids and management

Giant retinal tears.

Experimental tolerance of perfluoro-octane.

Second meeting on perfluorocarbon liquids in vitreoretinal surgery. University of Marburg, Marburg, Germany, June 15, 1991.

Perfluorocarbon gases and liquids.

Visiting Professor, Retina Research and Development Foundation, Washington University, St. Louis, Missouri, September 6, 1991.

Techniques and results in giant retinal tears.

Management of traumatic retinal detachment with perfluorocarbon liquids.

Third International Congress on Vitreoretinal Surgery, Bietti Fondazione, Rome, Italy, September 11-14, 1991.

PRESENTATIONS (continued)

Giant retinal tears.

Grand rounds, Department of Ophthalmology, New York Medical College, Valhalla, New York, October 1, 1991.

Discussant: Results of the use of perfluoropropane gas in complicated vitreous surgery. Authors: Sabates N, Tolentino FI, Arroyo M, Freeman HM.

Presented at the American Academy of Ophthalmology Annual Meeting, Anaheim, CA, October 17, 1991.

New multifunction vitreoretinal instruments.

Iris neovascularization in proliferative vitreoretinopathy.

Atlantic Vitreoretinal Surgery Study Group, The Retina Center, Towson, MD, November 1-2, 1991.

Moderator, Fall Meeting, New York Society for Clinical Ophthalmology, New York, New York, November 9, 1991.

Perfluorocarbon liquids: the practical technique.

First International Retinal Disease Forum, Tokyo Medical College, Tokyo, Japan, December 5, 1991.

Perfluorocarbon liquids in vitreoretinal surgery.

Annual Meeting, Japan Retina Society, Tokyo, Japan, December 6-8, 1991.

Giant Retinal Tears.

Management of dislocated lenses and IOLs.

Effect of lipid lower on diabetic retinopathy.

Teaching day, Department of Ophthalmology, Albany Medical College, Albany, N.Y. March 7, 1992.

Giant Retinal Tears

Case Presentations

Visiting Professor, Wills Eye Hospital, Thomas Jefferson University, Philadelphia, PA. March 11, 1992.

Moderator, Spring meeting, New York Society for Clinical Ophthalmology, Waldorf Astoria Hotel, New York, N.Y., March 28, 1992.

Selection of gases for vitreoretinal surgery.

Moderator, Intraocular gas course.

Second International Symposium on Ocular Trauma, Geneva, Switzerland, April 2-5, 1992.

Moderator, Vitreoretinal surgery session
Association for Research and Vision in Ophthalmology, Sarasota, FL, May 6, 1992.

Giant Retinal Tears, Visiting Professor
Massachusetts Eye and Ear Infirmary, Harvard Medical School, Boston MA, May 21, 1992.

Management of expulsive choroidal hemorrhage
Proliferative vitreoretinopathy
Ultrasonography of vitreoretinal disease
Colorado Ophthalmological Society, Summer Meeting, Aspen, CO, August 1-5, 1992.

Further developments in panoramic viewing for vitreous surgery
Hermann Wacker Prize lecture, Club Jules Gonin, Vienna, Austria, September 10, 1992.

Ultrasonographic characteristics of residual perfluorocarbon liquids and silicone oil
Retina Society, Plaza Hotel, New York, N.Y. September 24, 1992.

PRESENTATIONS (continued)

New developments in vitreous surgery.
Harvey B. Taterka Memorial lecture, New York University School of Medicine, New York, NY, October 10, 1992.
Macular surgery
Spring Meeting, The New York Society for Clinical Ophthalmology, Radisson Hotel, New York, NY, October 17, 1992.

Treatment of CMV retinitis
Giant retinal tears: management with perfluorocarbon liquids
Management of proliferative vitreoretinopathy
XX Annual Course Fundacion Oftalmologica Argentina Jorge Malbran, Buenos Aires, Argentina, October 4-8, 1992.

Giant retinal tears
Wide angle viewing in vitreous surgery
Dept. of Ophthalmology, Ospedale San Raffaele, University of Milan, Milan, Italy, October 30, 1992.

Selection of gases in vitreoretinal surgery
Perfluorocarbon liquids in the management of large posterior retinal breaks with PVR
Management of the postoperative gas patient
Moderator, Central and Macular Holes
Internal Tamponade in Vitreoretinal Surgery, Department of Ophthalmology, "S. Maria delle Croci" Hospital, Ravenna, Italy, October 31- November 1, 1992.

Giant retinal tears without scleral buckling
Complications of perfluorocarbon liquids
Vitreoretinal Frontiers, Adolphus Hotel, Dallas, TX, November 6-7, 1992.

Does heparin and dexamethasone reduce the reepithelialization rate in PVR?
American Academy of Ophthalmology Annual Meeting, Dallas, TX, November 12, 1992.

Panoramic viewing for vitreous surgery
Atlantic Vitreous Surgery Study Group, Baltimore, MD, December 4-5, 1992.

Giant retinal tears
Proliferative vitreoretinopathy
Visiting professor, Kresge Eye Institute, Wayne State University, Detroit, MI, January 6, 1993.

Perfluorocarbons in vitreous surgery
Department of Ophthalmology, Stanford University School of Medicine, Palo Alto, CA, January 16, 1993.

Management of posteriorly dislocated lenses and IOLs
Giant Retinal Tears
Emory University Ophthalmology Alumni Meeting, Atlanta, GA, February 5-6, 1993.

Visiting Professor, Department of Ophthalmology, University of Ottawa, Ottawa, Canada February 10, 1993.

Panoramic viewing in vitreous surgery
Management of giant retinal tears without scleral buckling
Retina Society of Spain, Madrid, Spain, March 6, 1993.

New instrumentation
Complications of perfluorocarbon liquids
Panoramic viewing in vitreous surgery
Advanced Vitreous Surgery Symposium honoring Thomas Aaberg, M.D., Medical College of Wisconsin, Kohler, WI, April 15-17, 1993.

PRESENTATIONS (continued)

Management of dislocated lens fragments and IOLs, John Milton McLean Lecture, Department of Ophthalmology, Cornell University Medical College, New York, NY, May 14, 1993.

Perfluorocarbon liquids in the treatment of macular holes
The role of perfluorocarbon liquids in the management of recurrent proliferative vitreoretinopathy
Endophotocoagulation techniques
Giornate Internazionale di Chirurgia Vitreo Retinica, Director Prof. Vito De Molfeta, M.D., Monza, Italy, May 27-29, 1993.

Panoramic viewing in the management of posteriorly dislocated lens fragments
Guest of Honor, Massachusetts Eye and Ear Infirmary Alumni Meeting, Boston, MA, June 5, 1993.

The management of posteriorly dislocated lens fragments and IOLs.
A. Raymond Pilkerton Lecture, Thirty-first Annual Residents and Alumni Conference, Department of Ophthalmology, Georgetown University Medical Center, Washington, D.C., June 11-12, 1993.

Chairman, Retinal Detachment, Proliferative Vitreoretinopathy Session
First International Ophthalmology Symposium, Bordeaux, France September 9-11, 1993.

Management of dislocated lens nuclei and intraocular lenses.
Department of Ophthalmology, Tanta University, Tanta, Egypt, October 1, 1993.

Evolution in the management of giant retinal tears.
Ronald G. Michels Memorial Lecture, Atlantic Vitreoretinal Surgery Study Group, Baltimore, M.D. October 9, 1993

Management of giant retinal tears without scleral buckling.
Perfluorocarbon liquids in vitreoretinal surgery.
Ahmedabad Academy of Ophthalmology, Ahmedabad, India, October 23, 1993.

Discussion of paper: Effects of Intraocular Gas Bubble Duration in the Treatment of Macular Holes by Vitrectomy and Transforming Growth Factor beta-2. American Academy of Ophthalmology Annual Meeting, Chicago, Illinois, November 16, 1993.

Perfluorocarbon liquids: present and future in vitreoretinal surgery
G.B. Bietti Foundation Award, Italian Society of Ophthalmology Annual Meeting, November 20, 1993.

Panoramic viewing in proliferative vitreoretinopathy
The Vitreous Society, St. Thomas, V.I., December 4, 1993.

Update on diabetic retinopathy.
Combined Cornell-Memorial-Sloan Kettering Endocrinology Rounds, Memorial Hospital, December 8, 1993.

Panoramic Viewing in Vitreoretinal Surgery
Grand Rounds, Manhattan Eye, Ear, and Throat Hospital, New York, N.Y., January 11, 1994

Panoramic viewing in vitreoretinal surgery

Macular pucker

Case Presentations

Visiting Professor, Department of Ophthalmology, University of California at San Francisco, San Francisco, CA, January 20-21, 1994.

PRESENTATIONS (continued)

Controversies in the management of giant retinal tears.

Panoramic viewing in vitrectomy.

Perfluorocarbon liquids in the management of proliferative vitreoretinopathy.

Management of expulsive choroidal hemorrhage.

Management of posteriorly dislocated lens fragments

XVth Curso Annual Asociacion de Exalumnos Fundacion Oftalmologica Nacional, Bogota, Colombia, February 16-21, 1994.

Management of dislocated lens fragments and IOLs

Grand Rounds, Dept. of Ophthalmology, Cabrini Hospital Center, New York, NY, March 23, 1994.

Perfluorocarbon liquids update.

Case Presentations

Visiting Professor, Wills Eye Hospital, Dept. of Ophthalmology, Thomas Jefferson University, Philadelphia, PA., March 24-25, 1994.

Panoramic viewing in vitreoretinal surgery.

Department of Ophthalmology, New York University Medical Center, New York, NY, April 15, 1994.

Perfluorocarbons in ophthalmic surgery.

Fluorine in Medicine in the 21st Century, University of Manchester, Manchester, England, April 18-21, 1994.

Scientific Session Moderator. Association for Research in Vision and Ophthalmology, Sarasota, FL, April 29-May 3, 1994.

Panoramic viewing in vitreoretinal surgery.

Management of giant retinal tears.

Management of dislocated lens fragments and IOLs.

IInd Simposium International Sobre: Retina Clinico-Quirurgica Patologic Vitreo-Retinal y Laser, Buenos Aires, Argentina, June 7-12, 1994.

Comparison of postoperative complications of silicone oil and gas in patients with giant retinal tears.

Satellite meeting of the Club Jules Gonin, Marburg, Germany, September 6-8, 1994.

An innovative 25 gauge forceps for repositioning dislocated intraocular lenses and repair of iridodialysis.

Club Jules Gonin, Versailles, France, September 9-14, 1994.

Expanded indications for perfluorocarbon liquids.

Retina Society, Williamsburg, VA, September 28-October 2, 1994.

Management of macular holes and macular pucker.

Department of Ophthalmology, Ospedale San Raffaele, University of Milan, Milan, Italy, October 7, 1994.

Management of dislocated lens fragments and IOLs

Il Distacco di Retina, Department of Ophthalmology, University of Udine, Udine, Italy, October 8, 1994.

Panoramic viewing in vitreoretinal surgery. 13th Nachazel Lecture, Department of Ophthalmology,

Beaumont Hospital, Royal Oak, MI, October 18, 1994.

Results of perfluoro-n-octane in proliferative vitreoretinopathy.

Management of dislocated lens fragments and IOLs.

48th Japanese Congress of Clinical Ophthalmology, Chiba, Japan, November 3-4, 1994.

Panoramic viewing in vitreoretinal surgery.

Department of Ophthalmology, Harlem Hospital Center, New York, NY, November 18, 1994.

PRESENTATIONS (continued)

Panoramic viewing in vitreous surgery.
Management of penetrating ocular trauma.
Case presentations.

Visiting professor, Department of Ophthalmology, University of Toronto, Toronto, Canada, March 2-3, 1995.

Scientific session moderator. Spring Meeting, New York Society for Clinical Ophthalmology, New York, NY, March 25, 1995.

Perfluorocarbon liquids in complicated retinal detachments.
Vitreotomy for idiopathic macular holes: techniques, adjuvants and results.
Update in Vitreoretinal Surgery and Diabetic Retinopathy. Department of Ophthalmology, Cleveland Clinic Foundation, Cleveland, OH, April 1, 1995.

Surgical management of macular pucker.
Techniques and results of perfluoro-n-octane in proliferative vitreoretinopathy.
Management of giant retinal tears without scleral buckling.
Management of giant retinal tears with proliferative vitreoretinopathy.
Management of idiopathic macular holes with autologous plasma tissue glue.
Annual meeting of the Brazilian Retina Society, Goiania, Brazil, April 5-7, 1995.

Wide angle viewing in vitreoretinal surgery.
Grand Rounds, Department of Ophthalmology, Long Island College Hospital, Brooklyn, NY, May 5, 1995.

New treatment modalities for macular holes and macular pucker.
Westchester Academy of Ophthalmology, Purchase, NY, May 9, 1995.

Effect of intravitreal tissue plasminogen activator on experimental subretinal hemorrhage.
Suncoast Retina Research Forum, Longboat Key, FL, May 12-13, 1995.

Vitreotomy for complications of cataract surgery.
Panhellenic Ophthalmology Congress, Athens, Greece, June 2-3, 1995.

Macular surgery.
Panoramic viewing in vitreous surgery.
Management of giant retinal tears.
Diabetic vitrectomy.
Management of dislocated lens fragments and IOLs.
Visiting professor, Tung Wah Eastern Hospital Group, Hong Kong, June 26-30, 1995. Results of perfluoro-n-octane in proliferative vitreoretinopathy. Department of Ophthalmology, University of Hong Kong, July 1-3, 1995.

Discussion: Outcomes of Vitrectomy for Retained Lens Fragments
American Academy of Ophthalmology Annual Meeting, Atlanta, Georgia, October 31, 1995.

Panoramic viewing in vitreoretinal surgery.
Management of proliferative diabetic retinopathy.
Management of dislocated lens fragments and IOLs.
Biannual Scientific Meeting, Department of Ophthalmology, University of Sao Paulo, Sao Paulo, Brazil, December 2-3, 1995

23 Gauge Vitrectomy system
Vail Vitreous Meeting, Vail, Colorado, March 9-16, 1996.

PRESENTATIONS (continued)

Panoramic diabetic vitrectomy
Management of choroidal hemorrhage
Vitrectomy for macular hole
Sally Letson Symposium, Ottawa, Canada, September 20-21, 1996.

Management of penetrating ocular trauma.
New York Medical College, Westchester Medical Center, January 7, 1997.

Ocular tamponades.
Proliferative vitreoretinopathy.
Greater New York Clinical Lecture Series, Manhattan Eye, Ear & Throat Hospital, New York, N.Y. January 15, 1997.

Management of dislocated lens fragment and IOLs.
North Shore/Long Island Jewish Grand Rounds, Manhasset, New York February 5, 1997.

Management of retinal complications of anterior segment surgery.
25th G. Victor Simpson Lecture, Washington Hospitals Center, Washington, D.C. February 8, 1997.

Indications for vitrectomy and perfluorocarbon liquids in primary retinal detachment.
Retained perfluorocarbon liquids in a case of giant tear.
Combined tamponade with PFCL and silicone oil: an experimental study.
Spanish Vitreo Retina Society, Barcelona, Spain, February 15-23, 1997.

Management of dislocated lens fragments.
New York Society for Clinical Ophthalmology Spring Meeting, New York, NY, March 15, 1997.

Perfluorocarbon liquids present and future.
Macular hole results with autologous plasma/thrombin.
Arthur Bedell Memorial Lecture, Wills Eye Hospital, Philadelphia, PA March 20, 1997.

Uses of perfluorocarbon liquids in proliferative vitreoretinopathy.
Giant retinal tears.
4th International Pan-African Arab Council of Ophthalmology, Amman, Jordan May 5-8, 1997.

New perspective in the management of penetrating eye injuries.
Taylor Smith Lecture, Aspen Retinal Detachment Society, Aspen CO, March, 1998.

Causes of failure in surgery for giant retinal tears.
WM Helmerich Lecture, The Vitreous Society, Anchorage, Alaska, June 1998.

Perfluorocarbon liquids
Alcon Research Institute, Fort Worth, TX, March 26, 1999.

Visiting Professor, Department of Ophthalmology, University of South Florida, Tampa, FL. April 15-16, 1999.

Giant retinal tear update
Proliferative vitreoretinopathy
Retina Update, Bascom Palmer Eye Institute, Miami, FL, May 7-8, 1999.

High speed vitreous cutting: fact or fiction?
Causes of failure in giant retinal tears
30th Congresso Brasileiro de Oftalmologia, Recife, Brasil, September 4-7, 1999.

PRESENTATIONS (continued)

Optical coherence tomography as an adjunct to macular surgery
The future of retinal diseases.
Cole Eye Institute, Cleveland, OH, Sept. 17-18, 1999.

Giant retinal tears
International Congress on Vitreoretinal Surgery, Marburg, Germany, Oct. 1-2, 1999.

Retina Society Annual Meeting, Maui, Hawaii, Dec. 1-4, 1999.

Present and future of vitreous surgery
XXXIII Everett Goar Lecture, Houston Ophthalmological Society, Jan. 13, 2000.

Optical coherence tomography
New perspectives in penetrating trauma
Panoramic diabetic vitrectomy
International Congress on Vitreoretinal Surgery, Buenos Aires, Argentina, March 9-10, 2000.

Dislocated lens fragments and IOLs
Harold Gifford Lecture, University of Nebraska, Omaha, NE, April 7, 2000.

High speed cutting
Optical coherence tomography
Giant retinal tear update
Brazilian Congress of Retina and Vitreous Society, Belo Horizonte, Brazil, April 20-22, 2000.

Joint Meeting of Maryland, District of Columbia, and Virginia Ophthalmological Societies, Homestead, WV,
May 12-14, 2000.

Techniques of peeling internal limiting membrane
Macular Hole Surgery
5th International Vitreoretinal Surgery Congress, Parma, Italy, May 26-27, 2000.

What's new in diabetic vitrectomy? – US perspective
DR2000, International Forum on Diabetic Retinopathy, Naples Italy, Sept. 7-8, 2000.

Retinal Update,
Dept. of Ophthalmology, University of Maryland, Baltimore, MD, September 22, 2000.

Techniques in ILM peeling
Giant retinal tears – reoperations
Catholic University, Santiago, Chile, October 6-7, 2000.

Unusual Case Presentations in vitreoretinal surgery
24th Annual Meeting of the Japanese Society of Ophthalmic Surgeons, Osaka, Japan, January 26-28, 2001.

Surgical treatment of diabetic macular edema
International Symposium on Ophthalmology, Hong Kong, February 2-4, 2001

Treatment of diabetic macular edema
Giant retinal tears – causes of failure
18th Congress of the Asia Pacific Academy of Ophthalmology, Taipei, Taiwan, March 10-14, 2001.

Diabetic macular edema
D. Jackson Coleman Lecture, Weill Cornell Medical College, New York, NY, April 5, 2001.

PRESENTATIONS (continued)

Technology Update

Giant retinal tear update

Vitreoretinal Surgery Update, Bascom Palmer Eye Institute, Miami, FL, April 27-28, 2001.

Treatment of diabetic macular edema

Wilmer Institute Distinguished Lecturer, Johns Hopkins University School of Medicine, Baltimore, MD, May 18, 2001.

Bausch and Lomb Visiting Professor

Department of Ophthalmology, University of Rochester School of Medicine, June 15-16, 2001.

Role of vitrectomy in diabetic macular edema

International Congress on Diabetic Retinopathy, Rimini, Italy, June 29-30, 2001.

Surgical techniques of ILM peeling

New perspectives in open globe injury

25th Anniversary of Chang Gung Memorial Hospital, Taipei, Taiwan, August 3-5, 2001.

Perfluorocarbon liquids in the management of primary retinal detachment

XXIst Cambridge Ophthalmological Symposium, Cambridge, England, September 3-5, 2001.

Treatment of diabetic macular edema

Phillip Ellis Lecture, Rocky Mountain Lions Eye Institute, University of Colorado, CO, September 20-22, 2001.

Visionary – Proliferative Vitreoretinopathy

Retina Subspecialty Day, American Academy of Ophthalmology, New Orleans, LA, November 12, 2001.

Vitreomacular traction Syndrome

Nuclear cataract after Vitrectomy

Macular surgery complications

Illrd Retina Summit: Options, Controversies, and New Developments in Vitreoretinal Diseases and Surgery,

Cleveland Clinic Foundation, Cleveland, OH, January 25-36, 2002

Chair/Moderator , Vitreoretinal Video Forum

Mechanisms of failure in giant retinal tears

Plenary session: The future of vitreoretinal surgery

International Congress of Ophthalmology, Sydney Australia, April 19-24, 2002

Keynote speaker: Diabetic Retinopathy

11th Conference on Health Problems of Asian Americans, New York, NY, May 25-26, 2002

Techniques in ILM peeling

Vitreomacular traction syndrome

Perfluorocarbon liquids update

Southwest Vitreoretinal Surgery Meeting, San Antonio, TX, July 12-14, 2002

Management of the failed scleral buckle

Complications of ocular tamponades

Giant tears

6th International Symposium of Singapore National Eye Center, Singapore, August 2-4, 2002.

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Lincoff H, Kreissig I, Coleman DJ, Chang S Use of an intraocular gas tamponade to find retinal breaks. *Am. Jnl. Ophthalmol.* 1983;96:510-516.

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Chang S, Haik BG, Ellsworth RM, St Louis L, Berrocal JA Treatment of total retinal detachment in the morning glory syndrome. *Am. J. Ophthalmol.* 1984;97:596-600.

Chang S, Coleman DJ, Lincoff H, Wilcox LM, Braunstein R, Maisel JA Perfluoropropane in proliferative vitreoretinopathy. *Am. J. Ophthalmol.* 1984;98:180-188.

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