

**1990 ANNUAL REPORT OF THE
DEPARTMENT OF
OPHTHALMOLOGY**



**NEW YORK MEDICAL COLLEGE
Valhalla, New York 10595**

Residency Program

The residency program of the Department of Ophthalmology is coordinated on a geographic basis. The Northern Division includes Westchester County Medical Center, Lincoln Medical & Mental Health Center, Metropolitan Hospital Center, Our Lady of Mercy Medical Center and Morrisania Neighborhood Family Comprehensive Health Care Center. The Southern Division is responsible for eye care at The New York Eye & Ear Infirmary and Beth Israel Medical Center. The diversity of primary-tertiary care in a suburban-urban and private-public institutions allows a broad exposure of patients with various eye conditions for teaching medical students, residents and fellows. The residents participated in 130,000 patient visits and 4,000 surgical procedures during the academic year. This volume and diversity also offers many opportunities for clinical research.

The Northern/Southern organization allows both concentrated teaching conferences as well as combined activities utilizing the various expertise of over 450 faculty members in the Department of Ophthalmology.

To enhance Medical Student Education during electives in Ophthalmology, the position of a Medical Student Educational Coordinator was established. This has improved the consistency of medical student knowledge and experience during the elective and also aids in the quantitative measurement of the student's performance. The coordinator has also assisted in the training of Emergency Service Residents and in the planning of the eye portion of the newly established program for primary care.

Continuing in the long tradition of eye research at New York Medical College, renewed NIH funding was received for many projects. In the the basic science field this included grants related to regeneration of the optic nerve, pharmacological control of intraocular pressure and lens metabolism from the aspect of cataract formation. In the clinical area, two studies were initiated in the field of Glaucoma: Long-term effects of argon laser trabeculoplasty and a quality of life study involving surgical vs. non-surgical management of glaucoma. Other studies initiated involve a case control study of risk factors for endophthalmitis and

a molecular epidemiologic of the pathogenesis of endophthalmitis, development of a new intraocular endoscopy system, and establishment of a tissue culture laboratory for both corneal, glaucoma and retinal studies.

GRADUATING RESIDENTS - 1990 MEDICAL SCHOOL

Paul Frank, M.D.	SUNY Downstate
Stephen Goldman, M.D.	Medical College of Pennsylvania
Gregg Gordon, M.D.	New York Medical College
Christopher Kruger, M.D.	New York Medical College
Alan Mitchell, M.D.	Temple University, Pennsylvania
Raymond Nisi, M.D.	Albert Einstein College of Medicine

**Paul Frank, M.D. -
Dr. Paul Frank will be going into Private
Practice**

**Stephen Goldman, M.D. -
Dr. Stephen Goldman will be going into Private Practice**

**Gregg Gordon -
Dr. Gordon will be the Warfield Fellow in Glaucoma with
Dr. Wandel**

**Christopher Kruger, M.D. -
Dr. Kruger will be doing a Cornea Fellowship, Connecticut
University of Hartford**

**Alan Mitchell, M.D. - Will be going into Private Practice in
Florida**

Raymond Nisi, M.D. - Private Practice in the Bronx, NY

Third Year Residents

**Judith Piros, M.D.
Emery Jaffe, M.D.
Frederico Maestre, M.D.
Margaret Blom, M.D.
Paul Phillips, M.D.
David Murphy, M.D.**

**Medical College of Virginia
University of Miami
University of Ponce, PR
Brown University, RI
SUNY/Stonybrook
University of Texas**

Second Year Residents

**Gari Caribin, M.D.
Donna Densel, M.D.,
Joel Nathan, M.D.
Jeffrey Perlman, M.D.
Peter Zacharia, M.D.**

**New York Medical College
New York Medical College
University of Miami
New York Medical College
New York Medical College**

First Year Residents

**Alric Blake, M.D.
Brendon Cassidy, M.D.
Eric Kanter, M.D.
Philip Kwait, M.D.
Kevin Meyers, M.D.
Robert Scharfman, M.D.**

**Robert Wood Johnson/NJ
University of Albany
Albert Einstein
Pritzker University, Chicago
Tulane University
New York Medical College**

EXECUTIVE COMMITTEE

The Executive Committee is charged with the task of charting the course of the Department. They select and monitor residents, set standards for patient care and research, advise on Medical School appointment and promotions and represent the Department at various school functions. During 1990 the following actions were taken:

1. **Departmental Conferences** - It was reiterated that Resident attendance at departmental conferences is mandatory barring emergency patient care, vacation or illness. Unexcused absences of >10% of monthly scheduled conferences will result in disciplinary action. Each Director of Service will ensure that the majority of residents attend these important departmental educational opportunities.
2. **General Clinics at Westchester Medical Center** - These clinics will always be maned by an attending. The scheduling has been revamped by Dr. James F.X. O'Rourke to define resident responsibilities.
3. **Departmental Reorganization** - The reorganization at Westchester Medical Center will reflect the new clinic

facilities and the private practice patterns appropriate for the New York Medical College.

4. **Grand Rounds** - The Westchester Medical Center Grand Rounds were changed to the first Tuesday of every month to accommodate the Greater New York Clinical Ophthalmology Course.

5. **Grand Rounds** - Lincoln Grand Rounds continue as one of the highlights of the program. It was re-emphasized that each case must have an attending adviser for preparation, discussion and summation.

6. **Graduation Dinner** - This was held on June 15, 1990 at Alex & Henry's restaurant in Scarsdale. It was a most joyous occasion and great tribute paid to the Graduating Residents and the whole department. Ms. Camille Damiano was well applauded for her efforts. The Department formally acknowledges those who made contributions to this important event.

7. **OKAP** - The scores were carefully evaluated. Those residents scoring less than an acceptable level are required to re-study that section and have a re-examination in that area. This is to shore-up weaknesses noted on the OKAP.

8. **Monitoring of each resident** - Continued monitoring was performed throughout the year. A formal

yearly evaluation was composed and presented to each resident at the yearly out-take interview.

9. **Residency Advisory Committee** - This committee, composed of Drs. J. O'Rourke and S. Zabin met with those individuals identified as needing special counselling and advice.

10. **Senior Resident** - A Senior Resident was elected by the residency staff which was added to the Executive Committee. This action has had a most positive effect on the committee's deliberations.

11. **Ethics & Morals** - The subject of teaching ethics and morals to the entire staff was debated during the year. Although no formal course was agreed upon, the importance of this subject is such that a continuing dialogue will be pursued. The Committee strongly felt that ethics and morals are best taught by example particularly in the clinics and operating rooms.

12. **Annual Resident Picnic** - In spite of inclement weather, the picnic was most successful in introducing the first year residents. The Executive Committee would like to thank Drs. Josephberg, Juechter, Kauffmann, Futterman, O'Rourke, Osowsky, Greenidge, Wandel, Zaidman and Walsh for contributing by presence and money.

13. **Annual Alumni Dinner** - The dinner was held in Atlanta, Ga. during the annual meeting of the American

Academy of Ophthalmology. This was held at the ideally located Plantation Restaurant, A large group participated and had a most festive and delightful evening. Many thanks to Dr. and Mrs. Jay Galst for the impeccable arrangements.

14. Residency Interviews - Interviews were held at Lincoln Hospital on December 5, 12, 19 and 26, 1990. The pool of candidates was impressive and those chosen by Dr. Zaidman for interviews were excellent. The match yielded a class of 1995 which will be a joy and most satisfying to teach. In 1991, the interviews will be held during 2 days with a consistent group of interviewers. Whether or not a resident will be a member of the group will be decided upon at a later date.

The chair wishes to acknowledge the work and dedication of the Executive Committee. As can be noted by the above actions, their dedication and conscientiousness are the standards for the whole department, without their participation the Department would be a much poorer environment.

The purpose of the program is resident education and patient care. The Executive Committee salutes the residents who make the whole experience a worthwhile endeavor. It is their actions and behavior in the years to come that will be the measure of our success.

It is obvious that a department of this magnitude cannot function without the contributions of many attendings and

the Executive Committee wishes to acknowledge and express its thanks to those who contribute of their talents.

The Executive Committee wishes to express its admiration for the many people who contribute to the running of the department including our dedicated nursing and technical staff, as well as to the secretarial and administrative co-workers.

Joseph B. Walsh, M.D.	Professor & Chairman
James F.X. O'Rourke, M.D.	Associate Professor & Chairman
Gerald W. Zaidman, M.D.	Program Director
	Director of Services
H. Futterman, M.D.	Lincoln Hospital
K. Juechter, M.D.	Our Lady of Mercy
K. C. Greenidge, M.D.	Metropolitan Hospital
F.X. O'Rourke, M.D.	Westchester County Medical Center

ANNUAL REPORT SUMMARY
WESTCHESTER COUNTY MEDICAL CENTER

The Westchester County Medical Center is the tertiary care referral hospital for the New York Medical College. It functions as a center of excellence in ophthalmology. Both primary and tertiary care services are delivered. This includes the routine treatment of basic ophthalmic disorders, such as prescribing glasses for myopia and presbyopia, examinations for conjunctivitis and blepharitis, etc. all the way up to tertiary care services such as vitreo-retinal surgery (involving air-fluid and air-gas exchanges) optic nerve decompression surgery, corneal transplant surgery and advanced glaucoma surgery. The residents are involved in all of these functions working with a diverse group of attendings which include the following:

James F.X. O'Rourke, M.D.	Associate Professor & Chairman
Gerald Zaidman, M.D.	Chief of Cornea
Taddeus Wandel, M.D.	Chief of Glaucoma
Scott Foreman, M.D.	Chief of Neuro-ophthalmology
Danny Kauffmann, M.D.	Chief of Retina, assisted by Robert Josephberg, M.D.
John Bortz, M.D.	Chief of Plastics
Mark Horowitz, M.D.	Chief of Pediatrics
Howard Charles, M.D.	Chief of Uveitis

The residents work one-on-one with the attendings while they deliver direct hands-on care of all the patients seen at the hospital. (both private and service).

The department also has a very active research component at the Westchester Medical Center/New York Medical College campus. Clinical research is being performed by Dr. Zaidman in various aspects of cornea and external diseases and by Dr. Wandel in the treatment of glaucoma. In addition, Basic Science research is performed by members of the department who are members of the medical school. These include Drs. Sharma, Fraley, Southern, Schwartzman, Ibrahim, Weinstein, Lerman and Mandel.

The surgical experience at the hospital is as varied as the clinical experience. The residents get the opportunity to directly perform or assist in ophthalmic surgical procedures in all aspects of ophthalmology including cataract, IOL, retinal, corneal, oculoplastic, and strabismus surgery as well as laser and emergency eye surgery.

**SUMMARY OF DEPARTMENTAL ACTIVITIES
DEPARTMENT OF OPHTHALMOLOGY
METROPOLITAN HOSPITAL CENTER**

The Department of Ophthalmology continues to undergo active changes. The changes over the last year have focused on the development of continued support for the services that have been introduced to the Department over the last three years.

The retina service is now headed by Raymond Wong, M.D., who has placed considerable effort towards the development of this service. Two major surgical retinal cases are now performed weekly in the department. He is supported by complete fluorescein angiography services as well as the appropriate equipment for medical and surgical laser treatment.

Dr. Lister has continued to insure the utmost in anterior segment surgery and now performs corneal transplantation as well as cataract extraction with lens implantation. Pacoemulsification is routinely performed.

The Oculoplastics and Glaucoma services continue to grow; the Pediatric - Ophthalmology service remains as the referral center for other affiliated hospitals.

The Department of Ophthalmology now utilizes, three days weekly, the operating room as well as a full five day clinic schedule.

The out-patient department currently treats 13,243 patients yearly and facilitates 200 laser surgical procedures. Approximately 215 major surgical cases were performed in the operating room and 113 major surgical procedures were performed within the out-patient area.

The Department of Ophthalmology has continued its research efforts, over this past year the Department of Ophthalmology at Metropolitan Hospital Center has been associated with 7 scientific presentations delivered throughout America and the Far East, and five scientific publications. Dr. Greenidge, Chief of Service, was a recipient of the American Academy of Ophthalmology Honor Award.

PUBLICATIONS

E

Forman, Scott, M.D.

_____, Behrens M, Odel J, et al: Relative Afferent Pupillary Defect with Normal Visual Function. Archives of Ophthalmology 108:1074-1075, 1990.

G

_____: Angle Closure Glaucoma. Drake M Ed, International Ophthalmology Clinics, Little, Brown & Co., Boston, Vol. 30, No. 3, pp. 177, 1990.

_____, Alyson K: Filtration Blebs - Formation, Development, Maturation and Complications. Ophthalmic Practice, Vol. 8, No. 5, pp. 188, October, 1990.

K

Kates, Mandes, R., M.D., Ph.D.

Leib M.L, _____: Orbital Computer Tomography. Lessell S & Van Dalen JTW Eds., Current Neuro-ophthalmology, Vol. 2, pp. 363-372, 1990.

Kauffmann, Danny, J.H., M.D.

_____, Wormser G: Ocular Lyme Disease - Case report review of the literature. Brit. J. Ophthalmology 74:325-327, 1990.

L

Lerman, Sidney, M.D.

_____: Laboratory Methods to Evaluate Drug Toxicity in Ocular Tissue. Manual of Oculotoxicity Testing of Drugs, Hockwin O, Green K, Rubin L Eds, Gustav Fischer Verlag, Stuttgart, NY, in print, 1990.

_____: In Vivo Methods to Evaluate Ocular Drug Efficacy and Side Effects. Manual of Oculotoxicity Testing of Drugs. Hockwin O, Green K, Rubin L Eds, Gustav Fischer Verlag, Stuttgart, NY, in print, 1990.

_____: Drug Toxicity Testing with New Delivery Systems. Manual of Oculotoxicity Testing of Drugs, Hockwin O, Green K, Rubin L, Eds. Gustav Fischer Verlag, Stuttgart, NY, in print, 1990.

_____: Cataractogenesis - Etiology, Risk Factors and Therapy. Chapter in Management and Care of the Cataract Patient. Weinstock, FJ, Ed. Medical Economics Books, Oradell, NJ, in print, 1990.

_____, Wandel T, Schechter A, Schenck J, Souza SP: In Vivo Non-Invasive Studies on the Human Lens. J. Mag. Res. Imag., 1990

_____, Schechter A, Schenck J, Wandel T, Mandal K: In Vivo T1 & T2 (MRI) Analyses on Human Normal Lenses and Cataracts. Invest. Ophth. Vis. Sci. Suppl. p. 434, 1990.

Mandel K, _____: Fluorescence Polarization Studies on Human Lens Crystallins. Invest. Ophth. Vis. Sci. Suppl. p. 50, 1990.

Wandel T, Mandal K, Misra B, Schechter A, Schenck J, _____: In Vivo and In Vitro NMR Studies on the Normal and Cataractous (Diabetic Degus Lens. Invest. Ophth. Vis. Sci. Suppl. p. 348, 1990.

_____, Mandal K: Fluorescence Polarization and CD Studies on Aging Human Lens Proteins. Ophth. Res, in print, 1990.

_____: Biophysical Methods to Monitor Lens Aging and Pre-Cataractous Changes in Vivo. Lens & Eye Tox. Res, in print, 1990.

Hockwin O, Sasaki K, _____: Evaluating Cataract Development with the Scheimpflug Camera. Master B, Ed., New Developments in Non-Invasive Studies to Evaluate Ocular Function. Springer-Verlag, NY, in print, 1990.

_____: Evaluation of Risk Factors in Human Cataractogenesis. Cataract Epidemiology - Proc. 3rd International Symposium., in print, 1990.

_____: In Vivo Monitoring of the Human Lens - A Fluorescence and MRI Approach. Ophthalmic Practice, in print, 1990.

_____, Mandal K, Misrai B, Schechter A, Schenck J: Phototoxicity Involving the Ocular Lens - In Vivo and In Vitro Studies. Photochem. & Photobiol, in print, 1990.

S

Sharma, Sansar, C., M.D.

_____, Schlussman S, Kobylack M: Tectal Afferent & Efferents. Cell & Tissue Res., 1990.

Schlussman S, _____: The Distribution of Retinal Ganglion Cells in Normal and Transgenic Mice. S. Neuroscience 16:1216, 1990.

McMahon A, Badoyannis H,_____, Sabbau E: Parallel Regulation of MRNA for Dopamine B-Hydroxylase and Tyrosine hydroxylase by Dexamethasone, CAMP and Growth Factors in Pc 12 Cells. Soc. for Neuroscience 16:960, 1990.

Braverman S, Sharref S, Rappaport I, _____: Cell Specific Monoclonal Antibody in the Visual System. Soc. for Neuroscience 16:1289, 1990.

Collins BJ, _____: A Monoclonal Antibody that Recognizes a protein associated with Nerve Growth & Regeneration. Am. Soc. For Neurochemistry, 1990.

W

Walsh, Joseph B.

_____, Gold A, Charles H: Editorial Consultant, Physician's Desk Reference for Ophthalmology, 18th Edition. Oradell, NJ, Medical Economics, Co., 1990.

Weinstein, Bernard, I., Ph.D.

Iyer RB, Binstock JM, Schwartz, IS, Gordon GG, _____, Southren AL: Human Hepatic Cortisol Reductase Activities - Enzymatic properties and Substrate Specificities of Cytosolic -5B-reductase and Dihydrocortisol-3 - oxidoreductase(s). Steroids 55:495-500, 1990..

Z

Zaidman, Gerald W., M.D.

_____, Coudron P, Piros J: *Listeria Monocytogenes* Keratitis. *American Journal of Ophthalmology*, 109:334-339, 1990.

_____: Paper Discussion of Penetrating Keratoplasty for Pseudophakic Bullous Keratopathy Associated with Closed-Loop Anterior Chamber Intraocular Lenses. *Ophthalmology* 97:413-4, 1990.

_____: Episcleritis and Symblepharon Associated with Lyme Keratitis. *American Journal of Ophthalmology*, Vol. 109, No. 4, 1990.

_____: A Prospective Study on the Implantation of Anterior Chamber Intraocular Lenses during Keratoplasty for Pseudophakic & Aphakic Bullous Keratopathy. *Ophthalmology*, 97:757-61, No. 6, 1990.

LECTURES

E

Forman, Scott, M.D.

Combined Grand Rounds Neurology & Neurosurgery, Ophthalmology
Enters the Nineties: Pseudotumor Cerebri (Idiopathic Intracranial
Hypertension).

Optic Nerve Sheath Fenestration - First Performed at Westchester
County Medical Center in Collaboration with Tom Larsen, M.D.,
Department of Neurosurgery.

G

Fourteenth International Glaucoma Conference, Phoenix, AZ:
Indications for Surgical Intervention. March, 1990.

American Society of Contemporary Ophthalmology, Phoenix, AZ:
Glaucoma Therapy - Advances of the 1980's. March, 1990.

The National Medical Association Annual Meeting, Las Vegas, Nevada:
Attainment of the Target Intraocular Pressure and Visual
Stabilization Following Various Filtration Procedures - Racial
Comparisons. July, 1990.

The National Medical Association Annual Meeting, Las Vegas, Nevada:
The Stability of Visual Function Following Surgery for Juvenile
Glaucoma. July, 1990.

American Academy of Ophthalmology, Atlanta, Ga: Laser Application
in Glaucoma, co- sponsor. November, 1990.

J

Josephberg, Robert, M.D.

Atlantic Coast Fluorescein Conference, Wills Eye Hospital,
Philadelphia, PA: Pseudo-AIDS Retinopathy. January, 1990.

Westchester County Medical Center, Housestaff: Diabetic
Retinopathy. February, 1990.

White Plains Hospital, NY, Diabetes Club: Diabetic Retinopathy. September, 1990

Westchester County Medical Center, Residents: Retinal Detachment and Treatment. October, 1990.

Wills Fluorescein Club, Philadelphia, PA: Fluconazole - Candida. October, 1990.

Rockland County Symposium, American Diabetes Association: Diabetic Retinopathy. November, 1990.

K

Kauffman, Danny J.H., M.D.

Bellevue Hospital, NY, New York Fluorescein Angiography Club: Peripheral Retinal Neovascularization. April, 1990.

Bellevue Hospital, NY, New York Fluorescein Angiography Club: Best's Disease. November, 1990.

New York Medical College, NY, Residents: Ocular Electrophysiology and Hereditary Retinal Degenerative Disorders. December, 1990.

Gouras P, Gelanze J, Du M, Lopez R, Kwun R, Kjeldbyo H, _____: Survival and Synapse Formation of Transplanted Rat Rods. ARVO Poster. Invest. Ophthalmology, Visual Science Suppl. 31:595, 1990. November, 1990.

L

Lerman, Sidney, M.D.

Columbia University College of Physicians and Surgeons, NY, Dept. of Ophthalmology: Cataractogenesis - Etiology, Risk Factors and Therapy. January, 1990.

Proc. 3rd Internat. Cataract Epid. Mtg., Singapore: Evaluation of Risk Factors in Human and Experimental Cataractogenesis. March, 1990.

Proc. 3rd Internat. Cataract Epid. Mtg., Singapore: In Vivo Monitoring of the Human Lens - A Fluorescence and MRI Approach. March, 1990.

Proc. 5th Internat. Symp., Ocular Fluorophotometry, Singapore: In Vivo Lens Fluorescence to Monitor Phototoxicity, Cataractogenesis and Anti-Cataract Drug Efficacy. March, 1990.

Proc. 2nd Congress International Society of Ocular Toxicology, Diedesheim, F.R.G.:Biophysical Methods to Monitor Lens Aging and Pre-Cataractous Changes In Vivo. May, 1990.

Proc. Am. Soc. Photobiol. Mtgh., Vancouver, BC, Canada: Phototoxicity Involving the Ocular Lens - In Vivo and In Vitro Studies, pp. 93S. June, 1990.

S

Sharma, Sansar, C., M.D.

Steckel, Mark, C., M.D.

Bridgeport Hospital, Ct, Pediatric Grand Rounds: Amblyopia and Strabismus. January, 1990.

Stratford Schools, Stratford, Ct, R.N.Conference: Pediatric Ophthalmology. March, 1990.

Connecticut Society to Prevent Blindness Spring Session, Stratford, Ct: Pediatric Ophthalmology and Strabismus. April, 1990.

Bridgeport Hospital, Ct, Pediatric Grand Rounds: Motility Disorders and Pediatric Lid Anomalies. November, 1990.

Bridgeport Post, Ct: The Gift of Sight. December, 1990.

W

Weinstein, Bernard, Ph.D.

New York Medical College, NY, Department of Medicine Research Rounds: Abnormal Cortisol Metabolism in Glaucoma. February, 1990.

Z

Zaidman, Gerald W., M.D.

ARVO, Sarasota, Fl: Measurement & Mapping of Corneal Sensations in Normal & Diseased Corneas. May, 1990.

RESEARCH

A

Adler, Stephen, M.D.

NIH: Glomerular Epithelial Cell Response to Inflammation

D

Darzynkiewicz, Z. M.D.

NIH, Effects of New Anticancer Drugs on the Cell Cycle

NIH, Probes for Flow Cytometry

F

Ferrone, Solano, M.D.

HLA-DR4 Heterogeneity, Monoclonal Antibodies

Fraley, Sandra, Ph.D.

5 R29 EYO7206-04

H

Hirsh, Eva, M.D.

NIH, Cerebrospinal Fluid Metabolism of Opioid Peptides and TRH

K

Kauffman, Danny, J.H., M.D.

NEI, New York Medical College, Westchester County Medical Center:
Angiogenesis Factor in Human Serum and Vitreous.

New York Medical College, Westchester County Medical Center:
Intraocular Liquid Silicone for Retinal Detachment.

NEI, with collaborators Gerritsen M and Eye Hospital, Rotterdam, Holland: Chemoattractants in Human Vitreous.

New York Medical College, Westchester County Medical Center: Perfluorocarbon Gases for Repair of Retinal Detachment.

New York Medical College, Westchester County Medical Center: YAG Laser in Vitreolysis.

Mechanisms of Retinal Regeneration in non-mammalian Vertebrate Eyes, Collaborator Springer, AD.

L

Lerman, Sidney, M.D.

NIH, Lens Proteins & Fluorescence: In Vivo and In Vitro Study

M

McGiff, John, M.D.

Hormonal Regulation of Blood Pressure

S

Sharma, Sansar, C., M.D.

NIH-NEI, 01426, Awarded NATO Grant: Genesis of Neural Specificity in the Visual System.

Southren, Louis, A., M.D.

The National Eye Institute, U.S.P.H.S. Grant EY01313: Treatment of Primary Open Angle Glaucoma with the Glucocorticoid Antagonist 3a 5b-Tetrahydrocortisol: A New Therapeutic Modality.

NIH, The Role of Abnormal Cortisol Metabolism in Glaucoma

HONORS

G

Greenidge, Kevin C. M.D.

The American Academy of Ophthalmology, 1990 - Honor Award
Recipient

S

Sharma, Sansar. C., M.D.

Elected Fellow of AAAS, May 1990.