

1989

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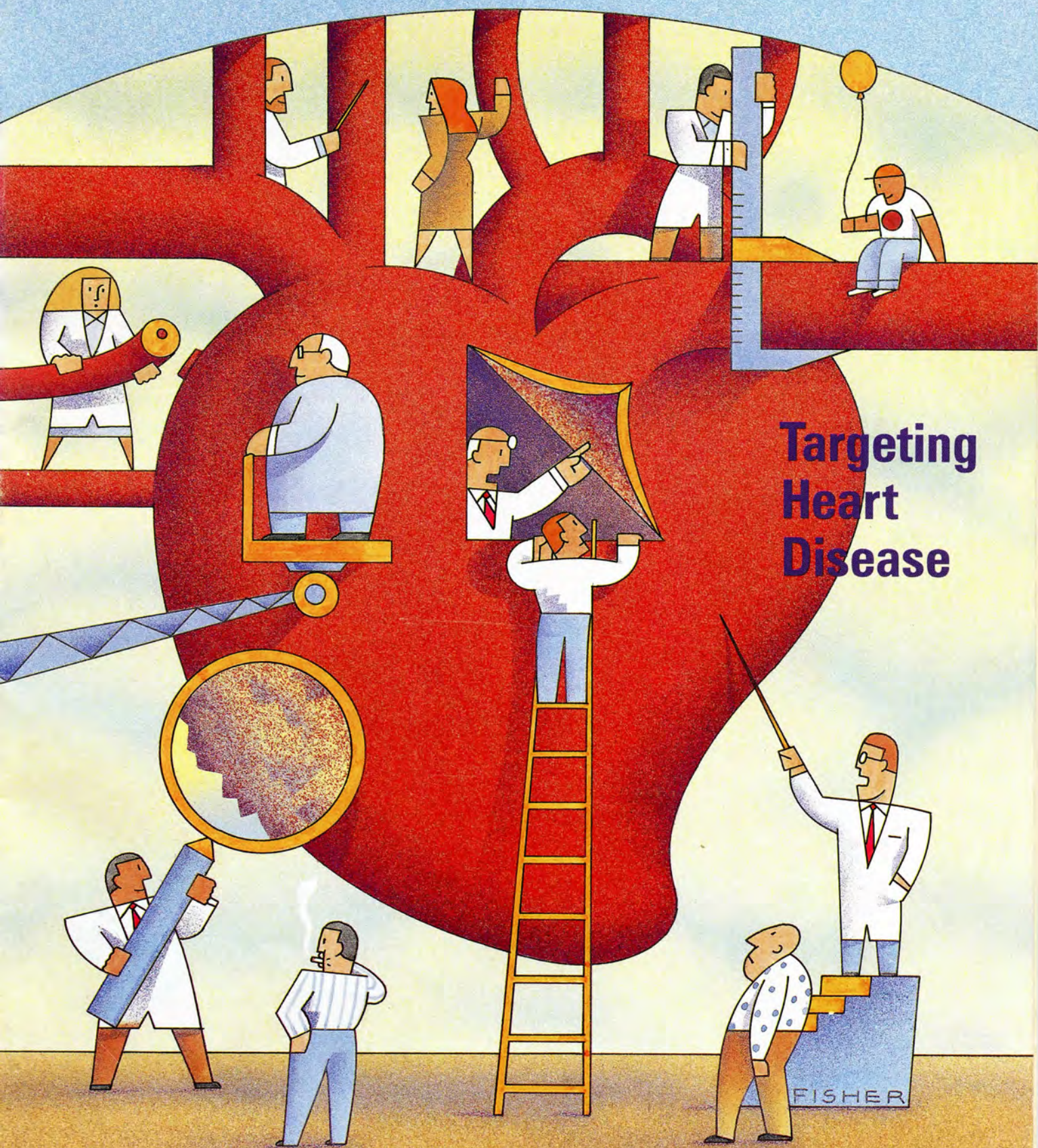
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Boston University  
School of Medicine

# Centerscope

Fall 1989 Vol. 20 No. 2



**Targeting  
Heart  
Disease**

FISHER



**Editor** Owen J. McNamara  
**Assistant Editor** Angela Cochran  
**Designer** Harry Breger, Boston University  
 Graphic Design Office  
**Staff Artist/Desktop Publishing**  
 Specialist Catherine LeBlanc  
**Staff Assistant** Alicia Colon  
**Advertising Manager** Virginia C. Trainor

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**Feature articles** are signed and represent the authors' viewpoints. Readers are encouraged to comment through the Forum section.

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**Cover illustration** by Mark Fisher.

**Illustrations** on pages 8, 9 and 11 by Catherine LeBlanc.

**Frontispiece:** Michael Cohen '89, the student speaker for BUSM's commencement exercises, enjoys post-ceremony festivities. For more commencement coverage, see page 2.

# Centerscope

Boston University Medical Center

Fall 1989 Vol. 20 No. 2

Boston University School of Medicine

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# Commencement

## Commencement speaker Prothrow-Stith tells graduates social sciences are medicine's horizon

"If the basic sciences are the foundation of medicine, then the behavioral and social sciences are the new horizons in medicine," Deborah Prothrow-Stith, M.D., then-commissioner of the Massachusetts Department of Public Health (DPH), told the 1989 BUSM graduates. Prothrow-Stith was the keynote speaker for the 117th BUSM graduation ceremony held May 21 at Trinity Church in Copley Square. She left the DPH post this fall to join Community Care Systems, Inc.

According to Prothrow-Stith, the practice of medicine has been rooted in the basic sciences, such as biochemistry, anatomy, pathology and microbiology. However, she told the graduating class, these basic sciences cannot offer solutions to non-traditional issues physicians now face, such as the spread of AIDS, the question of national health insurance and the education of expectant, lower-income mothers about prenatal care.

The 148 graduates also heard from Aram V. Chobanian, M.D., dean of the School of Medicine, who presided over the ceremony. "With a complex change in times and an explosion of knowledge, you must not forget to continue learning during your career outside the medical school," Chobanian told the graduates.

Citing problems that confront physicians, such as the increasing cost of health care and the rise of drug addiction, student speaker Michael Cohen urged his classmates not to fear these problems. "We have successfully handled difficulties over the past four years," Cohen said, "and I am confident that we'll be leaders in helping to seek solutions to medicine's problems in the future."

The graduating class represented 21 states and included 61 women and 36 minority students. Among the participants was Robin Corbett, the first student to graduate from BUSM's Early

Medical School Selection Program (EMSSP)—the only program in the country designed to recruit talented minority students into medical school by providing admission during their sophomore year of college. In addition, 43 students enrolled in the Combined Six-Year Liberal Arts and Medical Education Program received their B.A. and M.D. degrees. Also included among the graduates were 11 students enrolled in the Modular Medical Integrated Curriculum.

Academic honors were awarded to 13 members of the class of 1989. Four students graduated *magna cum laude* and 9 students graduated *cum laude*. Five graduates were awarded both M.D. and Ph.D. degrees.

Paul M. O'Bryan, M.D., an associate professor of physiology, was presented with the Dr. Stanley L. Robbins Award for Excellence in Teaching.

## BUSM graduates and their residencies

The following is a listing of the 1989 BUSM graduates, with their residency placements and categories. The key for honors is as follows:

\*\**magna cum laude*

\**cum laude*

Jules Sinclair Abadi: *Montefiore Medical Center, Bronx, N.Y.; medicine.*

\*\*Andrew Jay Abramowitz: *Mallory Institute of Pathology, Boston, Mass.; pathology.*

Harriet Sheri Ackerman: *internship deferred.*

Norberto Adame, Jr.: *Maricopa County Medical Center, Phoenix, Ariz.; emergency medicine.*

Kenneth Martin Algino: *Louisiana State University Affiliated Hospitals, New Orleans, La.; surgery.*

Peter Angelos: *McGaw Medical Center*



Paul Black, M.D., left, chairman of the microbiology department, Peter Mozden, M.D., a professor of surgery and an assistant clinical professor of gynecology, and keynote speaker Prothrow-Stith prepare for the ceremonies.

of Northwestern University, Chicago, Ill.; surgery.

Lynanne Marie Ballelli: *Beth Israel Hospital, Boston, Mass.; surgery.*

Pamela Suzanne Bassin: *Framingham Union Hospital, Framingham, Mass.; transitional. Mount Sinai Hospital, New York, N.Y.; anesthesiology.*

Stephanie Karol Becker: *Lenox Hill Hospital, New York, N.Y.; medicine. North Shore University Hospital, Manhasset, N.Y.; ophthalmology.*

Kenneth Ira Berger: *Montefiore Medical Center, Bronx, N.Y.; medicine.*

Richard Cranson Bird, Jr.: *Boston City Hospital, Boston, Mass.; medicine.*

Charles Michael Bliss, Jr.: *Boston City Hospital, Boston, Mass.; medicine.*

Brian Barak Bloom: *Johns Hopkins Hospital, Baltimore, Md.; medicine.*

Gloria Jean Bowles-Johnson: *Brigham and Women's Hospital, Boston, Mass.; obstetrics and gynecology.*

\*Rena Julie Buckstein: *Toronto Western Hospital, Toronto, Ontario; general comprehensive.*

Edward Bradshaw Bunney: *Cook County Hospital, Chicago, Ill.; transitional. Cook County Hospital, Chicago, Ill.; emergency medicine.*

Richard Vincent Buonocore: *Cooper Hospital-University Medical Center, Camden, N.J.; surgery.*

Joann Buonomano: *Fayetteville Allied Health Education Center, Fayetteville, N.C.;*

family practice.

John Thomas Carroll: Framingham Union Hospital, Framingham, Mass.; transitional. Los Angeles County-USC Medical Center, Los Angeles, Calif.; diagnostic radiology.

Daniel Martin Carson: New England Medical Center, Boston, Mass.; pediatrics.

Adam Drew Cohen: Bronx Municipal Hospital Center, Bronx, N.Y.; medicine.

Michael Scott Cohen: Mount Sinai Hospital, New York, N.Y.; medicine.

Robin Lynn Corbett: Baylor College Of Medicine, Houston, Texas; medicine.

William Gerard Costello: New England Deaconess Hospital, Boston, Mass.; medicine.

Marc Benjamin Danziger: Boston University School of Medicine, Boston, Mass.; orthopedic surgery.

Sarah Rodriguez De Guzman: Harbor-UCLA Medical Center, Torrance, Calif.; medicine.

Manuel J. del Rio Diaz: St. Barnabas Medical Center, Livingston, N.J.; medicine. Duke University Medical Center, Durham, N.C.; anesthesiology.

Paula Ann DeYoung: Women and Infant's Hospital, Providence, R.I.; obstetrics and gynecology.

James Chih-Cheng Ding: internship deferred.

Janet Elizabeth Doran: Carney Hospital, Boston, Mass.; medicine.

Robert Emanuel Eden: Rhode Island Hospital, Providence, R.I.; pediatrics.

Mark Ramsis Elias: Berkshire Medical Center, Pittsfield, Mass.; surgery.

Ronald Joseph Ellis: New England

Deaconess Hospital, Boston, Mass.; medicine. University of California-San Diego Medical Center, San Diego, Calif.; neurology.

Cherie Darlene Ertha: Eastern Maine Medical Center, Bangor, Maine; family practice.

David Avery Fahey: Worcester Memorial Hospital, Worcester, Mass.; medicine.

Ellen Ann Farkas: Winthrop-University Hospital, Mineola, N.Y.; obstetrics and gynecology.

Bernard Andrew Feigenbaum: Mercy Hospital and Medical Center, San Diego, Calif.; medicine.

Andrew J. Fishman: Montefiore-Einstein Affiliated Hospitals, Bronx, N.Y.; surgery.

Lorraine Julia Foley: St. Elizabeth's Hospital, Brighton, Mass.; surgery. Beth Israel Hospital, Boston, Mass.; anesthesiology.

Caridad Eduarda Fuertes: St. Luke's-Roosevelt Hospital Center, New York, N.Y.; medicine.

Blanca Ruth Gamboa: internship deferred.

Audrey Merrill Garrett: Vanderbilt University Medical Center, Nashville, Tenn.; medicine.

David Michael Garrison: Overlook Hospital, Summit, N.J.; medicine.

\*James Tan, Go: Kaiser Permanente Medical Center, Los Angeles, Calif.; surgery.

Reneé Michelle Goldberg: Beth Israel Hospital, Boston, Mass.; obstetrics and gynecology.

Nivia Esther Vazquez-Gollinger: Miami Children's Hospital, Miami, Fla.;

pediatrics.

Robert Lee Gore: Nassau County Medical Center, East Meadow, N.Y.; diagnostic radiology.

Anil Kumar Goyal: Presbyterian-University of Pennsylvania Medical Center, Philadelphia, Pa.; medicine. Scheie Eye Institute, Philadelphia, Pa.; ophthalmology.

Howard Malcolm Green: Carney Hospital, Boston, Mass.; transitional. Dartmouth-Hitchcock Medical Center, Hanover, N.H.; anesthesiology.

Steven Marc Greenberg: Temple University Hospital, Philadelphia, Pa.; diagnostic radiology.

Terrance George Hanlon: University of Massachusetts Hospital, Worcester, Mass.; medicine.

\*\*Stephen Uri Harris: The New York Hospital, New York, N.Y.; surgery.

Jeffery Scott Heier: Fitzsimons Army Medical Center, Aurora, Colo.; transitional.

Karin Janet Hemmingsen: Memorial Hospital, Pawtucket, R.I.; family practice.

Luis J. Hernandez: Municipal Hospital of San Juan, San Juan, Puerto Rico; transitional.

David Scott Herring: Framingham Union Hospital, Framingham, Mass.; medicine.

\*Jill Elizabeth Heytens: The University Hospital, Boston, Mass.; medicine. New England Medical Center, Boston, Mass.; neurology.

Ellyn Adrian Hirsch: Boston City Hospital, Boston, Mass.; pediatrics.

\*\*Gerald Allen Hladik: North Carolina Memorial Hospital, Chapel Hill, N.C.; medicine.

Cary Joseph Hoffman: Yale-New Haven Hospital, New Haven, Conn.; surgery.

Elizabeth Greenleaf Homans: University of California-San Francisco, San Francisco, Calif.; pediatrics.

Robin Ann Horn: University of Michigan Hospitals, Ann Arbor, Mich.; medicine.

Judith Che Fen Hwang: St. Francis Hospital and Medical Center, Hartford, Conn.; surgery.

Manoj Kumar Jain: Boston City Hospital, Boston, Mass.; medicine.

Brian John Jolley: St. Elizabeth's Hospital, Brighton, Mass.; surgery.

Karla Beth Kanis: New England Deaconess Hospital, Boston, Mass.; medicine. Boston University School of Medicine, Boston, Mass.; neurology.



Graduates study the commencement program before the ceremonies.

## Commencement

\*Joseph Peter Kannam: *Beth Israel Hospital, Boston, Mass.; medicine.*

Hilary Sue Kassler: *St. Luke's-Roosevelt Hospital Center, New York, N.Y.; obstetrics and gynecology.*

\*Kenneth Pierce Kato: *The University Hospital, Boston, Mass.; medicine. University of Florida, Gainesville, Fla.; ophthalmology.*

M. Elyce Kearns: *Massachusetts General Hospital, Boston, Mass.; psychiatry.*

Mary Plunkett Kelliher: *New England Medical Center, Boston, Mass.; pediatrics.*

Ira George Keselman: *University of Southern Florida College of Medicine, Tampa, Fla.; urology.*

Jay Han Kim: *Duke University Medical Center, Durham, N.C.; urology.*

Rebecca Sedgwick Knapp: *Boston University School of Medicine, Boston, Mass.; transitional.*

William Dakai Ko: *Framingham Union Hospital, Framingham, Mass.; transitional. St. Vincent's Hospital, New York, N.Y.; diagnostic radiology.*

Amy Kathleen Koller: *Miriam Hospital, Providence, R.I.; medicine.*

Robert M. Krasny: *Highland General Hospital, Oakland, Calif.; surgery.*

Frank Kakuzo Kuwamura III: *Naval Hospital, Bethesda, Md.; surgery.*

Michael Douglas Lane: *Naval Hospital, San Diego, Calif.; surgery. Naval Hospital, San Diego, Calif.; urology.*

Lin-Yuh Jenny Lee: *Rhode Island Hospital, Providence, R.I.; medicine.*

Adam Jason Lish: *Beth Israel Medical Center, New York, N.Y.; medicine.*

Baron Stuart Lonner: *Mount Sinai Hospital, New York, N.Y.; surgery.*

Richard Edward Luka: *Veterans Administration Medical Center, Boston, Mass.; medicine.*

SallyAnne Lund: *Emma Pendleton Bradley Hospital, East Providence, R.I.; psychiatry.*

Bonnie Teresa Mackool: *University of Connecticut School of Medicine, Farmington, Conn.; medicine.*

Ann Marie Madigan: *McLean Hospital, Belmont, Mass.; psychiatry.*

David Edward Marcello III: *Medical College of Virginia, Richmond, Va.; pediatrics.*

Julie D. Marcus: *Hennepin County Medical Center, Minneapolis, Minn.; medicine.*



Members of the Class of '89 applaud following the keynote address by Deborah Prothrow-Stith, M.D.

Gregory Frayne Martin: *Waterbury Hospital Health Center, Waterbury, Conn.; surgery.*

Thomas Peter Martin: *University of New Mexico School Of Medicine, Albuquerque, N.M.; diagnostic radiology.*

\*Gregory David Middleton: *University of Texas-Southwestern Medical School, Dallas, Texas; medicine.*

Maria de los Angeles Molina: *inter-ship deferred.*

Ernesto Pompeo Molmenti: *Barnes Hospital, St. Louis, Mo.; surgery.*

Patricia Gera Morikawa: *University of California-San Francisco, San Francisco, Calif.; pediatrics.*

Margo Magdelana Moskos: *Beth Israel Hospital, Boston, Mass.; medicine. Boston City Hospital, Boston, Mass.; diagnostic radiology.*

Sunit Mukherjee: *University of Texas-Southwestern Medical School, Dallas, Texas; medicine.*

Jean Ethel Murray: *Tripler Army Medical Center, Honolulu, Hawaii; obstetrics and gynecology.*

\*Mary Ellen Mustone: *Children's Hospital, Boston, Mass.; pediatrics.*

Patrick Henry Nachman: *North Carolina Memorial Hospital, Chapel Hill, N.C.; medicine.*

Cherie Anne Noe: *Boston City Hospital, Boston, Mass.; medicine.*

Sara Jane Nuciforo: *Boston City Hospital, Boston, Mass.; medicine.*

Michael Bernhard Osswald: *USAF Medical Center-Keesler AFB, Biloxi, Miss.; medicine.*

Henry Ki Paik: *Beth Israel Medical Center, New York, N.Y.; surgery.*

Steven Michael Patalano: *Mount Auburn Hospital, Cambridge, Mass.; medicine. New York University Medical Center, New York, N.Y.; ophthalmology.*

Maria Tereza Pelucio: *New England Deaconess Hospital, Boston, Mass.; medicine. George Washington University Hospital, Washington, D.C.; emergency medicine.*

Sandra Shang-Lie Peng: *USAF Medical Center-Keesler AFB, Biloxi, Miss.; medicine.*

Vincent Hoyt Pepe: *Boston City Hospital, Boston, Mass.; obstetrics and gynecology.*

Roderick Whalen Pettis: *University of California-San Francisco School of Medicine, San Francisco, Calif.; psychiatry.*

\*\*George Michael Plotkin: *Boston City Hospital, Boston, Mass.; medicine. Brigham and Women's Hospital, Boston, Mass.; neurology.*

Lorene Ann Policella: *Miriam Hospital, Providence, R.I.; medicine.*

Katherine Alice Wilson Powers: *Dwight D. Eisenhower Army Medical Center, Fort Gordon, Ga.; family practice.*

Margot Putukian: *Strong Memorial Hospital, Rochester, N.Y.; medicine.*

James David Rabinov: *Framingham Union Hospital, Framingham, Mass.; transitional. Boston City Hospital, Boston, Mass.; diagnostic radiology.*

Mohinder Paul Singh Randhawa, Jr.: *University of Chicago Medical Center, Chicago, Ill.; surgery.*

Doron E. Raphaely: *University of Washington Affiliated Hospitals, Seattle, Wash.; psychiatry.*

Consuelo Lucero Rodriguez: *Beth Israel Medical Center, New York, N.Y.; obstetrics and gynecology.*

John Joseph Romero: *Martin Luther King Jr.-Drew Medical Center, Los Angeles, Calif.; emergency medicine.*

David Milton Rose: *Veterans Administration Medical Center, Boston, Mass.; medicine.*

Howard Joseph Rosen: *Bronx Municipal Hospital Center, Bronx, N.Y.; medicine.*

Jay Eric Rosenfeld: *Faulkner Hospital, Boston, Mass.; medicine. Baylor College of Medicine, Houston, Texas; rehabilitation medicine.*

Suzanne Elisabeth Saletta: *Boston University School of Medicine, Boston, Mass.; urology.*

Samuel H. Santander: *Mount Auburn Hospital, Cambridge, Mass.; medicine. Pacific Presbyterian Medical Center, San Francisco, Calif.; ophthalmology.*

Wenda L. Saunders: *Boston City Hospital, Boston, Mass.; pediatrics.*

Sandra Johnson Savoie: *St. Elizabeth's Hospital, Brighton, Mass.; medicine. University of South Carolina School of Medicine, Columbia, S.C.; ophthalmology.*

\*Eric Jay Sax: *Newton-Wellesley Hospital, Newton, Mass.; medicine. Boston City Hospital, Boston, Mass.; diagnostic radiology.*

\*Jerry Michael Schreiberstein: *Boston University School of Medicine, Boston, Mass.; otolaryngology.*

Nanette Margaret Schwann: *Easton Hospital, Easton, Pa.; surgery.*

Stephen Joseph Sebastian: *University of Massachusetts Coordinated Programs, Worcester, Mass.; emergency medicine.*

Geoffery R. Sheinfeld: *Baystate Medical Center, Springfield, Mass.; medicine.*

David Samuel Silver: *McGaw Medical Center of Northwestern University, Chicago, Ill.; medicine.*

Robert David Silvetz II: *internship deferred.*

Alison Foster Sims: *internship deferred.*

Kurt Clement Sizer: *Mount Sinai Hospital, New York, N.Y.; medicine.*

Monica Smiddy: *George Washington University Hospital, Washington, D.C.; pathology.*



Graduate Robin Corbett receives a congratulatory hug from a faculty member following commencement ceremonies.

Theresa Ann Sullivan: *Letterman Army Medical Center, San Francisco, Calif.; psychiatry.*

Mubin Isaac Syed: *University of Louisville School of Medicine, Louisville, Ky.; medicine.*

Takahisa Robert Takei: *Hospital for Joint Diseases, New York, N.Y.; orthopedic surgery.*

Carter Bruce Tallman, Jr.: *University of Massachusetts Hospital, Worcester, Mass.; medicine.*

Anthony Joseph Vaccaro: *Michael Reese Hospital and Medical Center, Chicago, Ill.; medicine.*

Paul Anthony Vigna: *SUNY Health Science Center, Syracuse, N.Y.; surgery.*

Laura Vitale: *Boston University School of Medicine, Boston, Mass.; transitional. Boston City Hospital, Boston, Mass.; diagnostic radiology.*

Arden Waldman: *Hackensack Medical Center, Hackensack, N.J.; transitional. Albert Einstein College of Medicine, Bronx, N.Y.; rehabilitation medicine.*

Donna Lynn Washington: *University of California-San Francisco Medicine, San Francisco, Calif.; medicine.*

Kathrin Annette Weller: *Faulkner Hospital, Boston, Mass.; medicine. McGaw Medical Center of Northwestern University, Chicago, Ill.; rehabilitation medicine.*

Freddie Alvin Williams, Jr.: *Los Angeles County-USC Medical Center, Los Angeles, Calif.; medicine. Martin Luther King Jr.-Drew Medical Center, Los Angeles, Calif.; anesthesiology.*

Patricia Janine Williams: *Thomas Jefferson University Hospital, Philadelphia, Pa.; obstetrics and gynecology.*

Michelle Robin Yagoda: *Lenox Hill Hospital, New York, N.Y.; surgery. Manhattan Eye, Ear and Throat Hospital, New York, N.Y.; otolaryngology.*

Alex Garhoe Yip: *The New York Hospital, New York, N.Y.; pediatrics.*

## BUSM Class of 1989 prizewinners

The following graduates of the BUSM Class of 1989 were awarded prizes:

Andrew Abramowitz: *The Dean Eleanor Tyler Memorial Award; Elizabeth K. Moyer Memorial Prize; The Anthony L. F. Gorman Memorial Prize; Hewlett-Packard Company Medical Group Award.*

Lynanne Ballelli: *The Alumni Association Award.*

Charles Michael Bliss: *Masakichi Itabashi Award.*

Gloria Bowles-Johnson: *The Benjamin Tenney Prize in Obstetrics and Gynecology.*

Rena Buckstein: *American Medical Women's Association Inc., Scholarship Achievement Citation; Lange Medical Publications Award; Hewlett-Packard Company Medical Group Award.*

Daniel Carson: *Anne and David Michel Cancer Research Award.*

Ronald Ellis: *Ciba-Geigy Prize in Neurological Sciences.*

James Go: *Merck Manual Award.*

Terrance Hanlon: *Jacob Swartz Award from the Class of 1981.*

Stephen Harris: *Elizabeth K. Moyer Memorial Prize; Hewlett-Packard Company Medical Group Award.*

Jeffrey Heier: *Henry Bakst Award in Community Medicine.*

Jill Heytens: *Joseph Cochin Award in Pharmacology & Medical Ethics; American Medical Women's Association Inc., Scholarship Achievement Citation.*

Gerald Hladik: *The University Hospital Student Prize; The Internal Medicine Award; The Upjohn Award; Hewlett-Packard Company Medical Group Award.*

Karla Kanis: *The Sandoz Prize in Clinical Neurology.*

Joseph Kannam: *Job E. Fuchs Scholarship Award; Merck Manual Award.*

Kenneth Kato: *Merck Manual Award. M. Elyce Kearns: Dr. David R. Iverson*

*Student Award Fund.*

Mary Plunkett Kelliher: *The Alumni Association Award; New England Pediatric Society Prize.*

Rebecca Knapp: *The Malamud Prize.*

William Ko: *Radiology Award.*

Baron Lonner: *Radiology Award.*

Ann Marie Madigan: *The John M. Murray Prize.*

Gregory Middleton: *Henry Bakst Award in Community Medicine; Lange Medical Publications Award.*

Margo Moskos: *Wein Student Research Award.*

Mary Ellen Mustone: *Pediatric*

*Award; Dora Savenor Memorial Prize for Excellence in Surgery; American Medical Women's Association Inc., Scholarship Achievement Citation.*

Patrick Nachman: *Dr. Samuel L. Poplack Award.*

Maria Pelucio: *Jacob Swartz Award from the Class of 1981.*

Vincent Pepe: *The David Rothbaum, M.D. Obstetrics and Gynecology Award.*

George Plotkin: *The Internal Medicine Award; Chester S. Keefer Scholarship Award; Robert Slater, M.D. Prize in Anesthesiology; Hewlett-Packard Company Medical Group Award.*

Wenda Saunders: *Pediatric Award.*

Eric Sax: *Dr. Louis Weinstein Prize for Excellence in Infectious Disease.*

Jerry Schreiberstein: *The Richard J. Elkort Memorial Fund Award.*

Monica Smiddy: *The Alumni Association Award; The Bertha Curtis Award.*

Donna Washington: *The Internal Medicine Award; Henry J. Bakst Scholarship Award; The Solomon Carter Fuller Award.*

## Sandson addresses graduates during SPH commencement



Dean Emeritus John I. Sandson listens intently during SPH's commencement program.

Describing the School of Public Health as a "model for a fully integrated school of public health in an academic medical center," John I. Sandson, M.D., dean emeritus of BUSM, spoke of the history and formative years of SPH during commencement exercises held May 21. "Just as the School of Public Health was responsive to societal needs ten years ago," Sandson told the 10th anniversary class, "it is poised to prepare its graduates—you—for the concerns of the nineties."

During the ceremony held at the School for the Arts, Sandson cited problems in health care, such as in-

creased regulation, the malpractice crisis and the maldistribution of physicians that negatively affect the health care delivery system. "The nation is facing major issues in health care," Sandson told the graduates. "I am confident that among the 1989 graduating class

of the Boston University School of Public Health are future leaders who will help provide important answers to the difficult problems we face."

Student speaker Rochelle Rollins and Norman A. Scotch, Ph.D., director of the School, also addressed the SPH graduates, faculty and guests who attended the exercises.

Sixty-seven M.P.H. degrees and two D.Sc. in epidemiology degrees were awarded. In addition, several combined degrees were awarded, including two M.A./M.P.H. degrees, two M.D./M.P.H. degrees and two J.D./M.P.H. degrees.

## School of Public Health graduates

The following graduates received their Master of Public Health degrees from the School of Public Health for the 1988-89 academic year:

### May 1989

- Glennis M. Andall
- James A. Ballin, B.A.
- John M. C. Barrows, B.A.
- Abebe Bayou, B.S.
- Valerie J. Beach-Murphy
- Yassine Bennoui, B.S., D.M.D.
- Penelope T. Blume, B.A.
- Patricia M. Capomaccio, B.S.
- Alberto J. Cardelle, B.S.
- Chava E. Chapman, M.B., B.Ch.
- John J. Cloherty, B.A.
- Rosemarie A. Costanzo, A.B.
- Kathleen A. Costigan, B.S.N.
- Alba N. Cruz, B.S.
- Larry Culpepper, B.S., M.D.
- Karen M. Currie, B.A.
- Bethany A. DeNardo, B.S.
- Ralph A. Detri, B.A., M.A., M.S.W., C.A.G.S.
- Anthony Ferdinand, B.Sc., M.B., B.S.
- Karen M. Freund, A.B., M.D.
- Naida M. Gavrelis, B.S.
- Jill S. Glashow, B.S.
- Renee M. Goetzler, B.A., M.D.
- Anne E. Greene, B.A.
- Martha M. Groton, B.A.
- Carolyn J. Hardin, B.A.
- David C. Harlow, A.B., J.D.
- Denise M. Hartnett, B.S.
- Elizabeth A. Harvey, B.A., M.A., Ph.D.
- Bekure Hawaz, B.Sc.
- Pamela L. Henderson, B.A.



*Leonard H. Glantz, J.D., a professor of public health (health law and socio-medical sciences and community medicine), looks over the list of SPH graduates with graduate Janet O'Donnell-Cook.*

Manoj K. Jain, B.S.  
 Juma T. Kayembe, B.S.  
 Barbara A. Kemp, B.S.N.  
 Jeanmarie Kent, B.S.  
 Barbara L. Kreinik, B.S.  
 Nina Loewenstein, B.A.  
 Ramona Lucas Carrasco, M.D.  
 Diane M. Manganaro, B.S.  
 Peter G. McCann, B.S.  
 Elizabeth A. McCurdy, B.S.N.  
 Charles J. McOuat, B.A., D.D.S.  
 Lisa A. Metrano, B.S.  
 Mark R. Muto, B.A.  
 Janet O'Donnell-Cook, B.S.  
 Mark A. Oram, B.S.  
 Laurinda M. Poirier, B.S.N.  
 Heather A. Robinson, B.S.  
 Rochelle L. Rollins, B.A.  
 Michael S. Rosenblatt, B.A., M.D.  
 Mark A. Rudberg, B.S., M.D.  
 Stephen J. Sebastian, B.A.  
 Patricia A. Sereno, B.S.  
 Janet A. Shahood, B.A.  
 Stephen J. Shelton, B.S.  
 Sani Silwana, B.A., D.R.A.  
 Sharon A. Singer, B.A., M.Ed.  
 Dorith Sloutskis  
 Leslie D. Spaneas, B.S.N.  
 Michelle K. Stakutis, B.S.  
 Evelyn F. Thomas, B.S.  
 John Travers, B.S., M.D.  
 Stanley Felix Wainapel, B.A., M.D.  
 Rullijanto Wirahardja, M.D.

**D.Sc. Epidemiology**

Richard W. Clapp, B.A., M.P.H.  
 Martha M'Liss Werler, B.S., M.P.H.

**January 1989**

Cynthia E. Barber, A.B.  
 Dorothy A. Bowering, B.A., M.S.W.  
 Margaret M. Casey, A.A., B.S.  
 Lora O. Chatfield, B.S.N.  
 Won S. Choi, B.S.  
 Hamid Davoudi, B.S.  
 Efstratios Demetriou, B.S., M.D.  
 Lauren M. Foohey, B.S.  
 Sue D. Gillis, B.S., M.P.S.  
 Barbara R. Gottlieb, B.A., M.D.  
 Demet Gural, M.D.  
 Amer H. Kashoqa, B.A., M.D.  
 Barbara J. Katz, B.A., M.D.  
 Alexis A. Ladd, B.A.  
 Michelle A. Lambert, B.S.  
 Janice D. Lazarus, B.S.  
 Craig S. Lichtenwalner, Jr., B.A.  
 Rodine M. Malibo

*Daniel M. Merrigan, Ed.D., right, an assistant professor of public health (social and behavioral sciences), speaks with graduate Stephen Uche following the commencement ceremonies.*



Ethan Mascoop, B.A.  
 Elizabeth A. McLellan, B.A., B.S.N.,  
 M.S.  
 Anthony F. Milano, B.S., M.A., M.D.  
 Tanya M. Morton-Becker, B.S.N.  
 Doreen A. Nicaastro, B.S.  
 Lorna M. Pallozzi, B.S.  
 Karen J. Roberts, B.S.  
 Christina E. Rodriguez, B.S.  
 Jay M. Rudinsky, B.S.  
 Deborah S. Socolar, B.A.  
 Elizabeth A. Sommers, B.S.  
 Robyn A. Souza, B.S.  
 Marylou C. Thelmo, B.S.  
 Elizabeth R. Tucker, B.S.N.  
 Stephen C. Uche  
 Julie A. Wasserman, B.S.  
 Jean M. Zuman, B.A.

**September 1988**

Alice K. Abbott, B.S.N.  
 Abdul-Ghani F. Al-Iryani, B.A.  
 Ruth A. Carretta, B.S.  
 Helen J. Chen, B.A.  
 William Coady, B.A., M.S.  
 Patricia M. Demers, B.S.N., M.S.  
 Genita J. Ekpenyong, B.S., M.B., B.S.  
 Lucille M. Hardiman, B.S.N.  
 James F. Hogan, B.S.  
 Barbara J. Jones, B.A., M.A.  
 John A. Linfoot, Jr., B.A.  
 Peter A. Massad, B.S.  
 Kathleen B. McQueen, A.B.  
 Phare G. M. Mujinja, B.A.  
 Mark J. Roseman, B.S., M.S., O.D.  
 Maureen M. Shea, B.A.  
 Richard G. Shoemaker, B.S., M.D.  
 Mary S. Thompson, B.A.  
 Sharon F. Wallace, B.A., M.S.

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## Research in the News

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### Study cites importance of breakfast choices in cutting fat, cholesterol

A simple change in typical breakfast foods can significantly reduce total fat and cholesterol intake and can potentially decrease blood cholesterol levels that contribute to coronary heart disease, according to a study by R. Curtis Ellison, M.D., a BUSM professor of medicine and the new chief of the Evans Section of Epidemiology and Preventive Medicine at the University Hospital. Results of a study of 98 college students who changed from a high-fat to a low-fat breakfast were presented June 21 at the Second International Conference on Preventive Cardiology in Washington, D.C. The study was sponsored by the Kellogg Foundation.

"Nutritionists recommend eating breakfast for peak performance, but the types of foods being consumed are not often considered," said Ellison. "People tend to think that modifying their diets means eliminating red meat and many of their favorite foods. What they don't realize is the importance of simply changing what they eat at breakfast."

After participants' blood cholesterol baselines were determined, they were randomly assigned to either a high-fat breakfast with choices including eggs, bacon, pancakes and whole milk, or a low-fat diet of cereals, muffins, fresh fruits and low-fat milk. Students followed one of the two diets for three weeks and then switched to the other menu for another three weeks. They continued to consume their usual diets—including fast foods and other high-fat foods—for the remainder of the day.

Results of the study indicate that when students decreased their fat intake at breakfast, they achieved significant reductions in total daily intakes of both fat and cholesterol. For example, compared to a high-fat breakfast, a low-fat breakfast reduced breakfast fat intake by 50 percent and



resulted in a 15-percent reduction of total daily fat. Cholesterol intake at breakfast was 79 percent less during the low-fat period than during the high-fat period. Fat and cholesterol reductions achieved at breakfast were not compensated for by increased fat intake later in the day.

The low-fat breakfast also had a small yet significant effect on students' blood cholesterol levels. The effect was seen particularly among those whose cholesterol was above average, where it fell by 13 mg/dl. "While a healthy diet is beneficial to us all, these results indicate that people predisposed to high blood cholesterol can benefit especially from a low-fat breakfast," said Ellison.

"Given that a typical American breakfast accounts for nearly 25 percent of daily fat intake and two-thirds of daily cholesterol, an important approach for decreasing the risk of cardiovascular disease is to focus on breakfast," he said. "Many people who hesitate to try and change their entire diets would accept a low-fat, cereal-based breakfast."

Ellison emphasized the need to educate not only the public but also the institutions that manufacture, prepare and serve meals. "The industry could play an essential role in modifying diets—and ultimately reducing the risk of coronary heart disease of all Americans."

### No reduction of heart risk found in smoking 'light' cigarettes

Despite advertising campaigns that would suggest otherwise, smoking cigarettes low in nicotine and carbon monoxide rather than "high-yield" cigarettes does not reduce the risk of first, nonfatal heart attacks in women, according to a study conducted by researchers at the School's Slone Epidemiology Unit and published in the June 15 issue of the *New England Journal of Medicine*.

Julie Palmer, Sc.D., an assistant professor at BUSM and an epidemiologist at the Slone Epidemiology Unit, and other researchers evaluated more than 3,000 women to determine if smoking low-yield cigarettes reduced the risk of myocardial infarction in women under the age of 65. Determining the effect of smoking on heart disease, especially in women, is important for several reasons: cigarette smoking is an important risk factor of coronary heart disease in women as it is in men; smoking causes more illness and death through heart disease than through cancer; while there has been considerable progress in reducing the prevalence of men who smoke, the decline in women has been less dramatic; and women are more likely than men to smoke low-yield cigarettes.

In the case-control study, the BUSM researchers found the risk of heart attack for women who smoked the lowest-yield cigarettes was as high as it was for women who smoked the highest-yield cigarettes.

"What these findings mean for smokers, at least as they relate to heart disease, is that there is no advantage to switching brands from a high-yield brand to a low-yield brand," says Palmer, principal investigator of the study. The researchers suggested that one reason the proportion of women who have quit smoking is significantly less than the proportion of men who have quit is that rather than quit, women may have switched to low-yield cigarettes. According to the Palmer, "The study indicates that women should think about quitting smoking altogether rather than switching brands."

## Antivomiting drug seen benefitting cancer patients

A new antivomiting (antiemetic) drug holds promise for a better quality of life and better treatment outcome for many cancer patients, according to a study led by Paul Hesketh, M.D., an assistant professor of medicine at BUSM. The multicenter study, published in the June issue of the *Journal of Clinical Oncology*, showed the drug, GR 38032F (generic name: ondansetron) to be 75-percent effective in preventing chemotherapy-induced vomiting without the adverse side effects of traditional antivomiting medications.

GR 38032F, developed by the pharmaceutical company Glaxo, is one of the first of a new class of antivomiting drugs, called serotonin antagonists, that work by blocking nerve impulses in the bowel and/or brain that trigger nausea and vomiting. Hesketh's nationwide study is the largest Phase II clinical trial of any of these new agents to be published to date.

According to Hesketh, who is also a medical oncologist at the University Hospital, 85 to 95 percent of patients receiving intensive chemotherapy experience vomiting episodes following treatment without taking some kind of antivomiting agent. Traditional antivomiting medications, however, are often accompanied by neurological side effects, such as extreme drowsiness, involuntary movements and severe agitation. "Because of the way the new drug works on the central nervous system, it does not result in the neurologic toxicity seen with other commonly employed antiemetics," he says.

In Hesketh's study, which took place over a nine-month period, 85 cancer patients on high-dose cisplatin therapy (a common and highly emetogenic drug used in chemotherapy) received three doses of GR 38032F intravenously either every six or every eight hours, beginning 30 minutes before the chemotherapy session.

Fifty-five percent of the patients studied had no episodes of retching and vomiting and reported feeling no nausea following therapy. Twenty percent (considered to be major responders) had only one or two

episodes of retching and vomiting with the accompanying nausea. There also appeared to be no difference between those who had the drug every six hours and those on the eight-hour interval schedule. Although a few patients experienced mild headaches or slight temporary liver abnormalities, none experienced the more severe side effects of traditional medications.

While the drug does not cure cancer, it can ultimately affect the patient's potential for recovery, according to Hesketh. "Since it enhances quality of life and cuts down on the side effects of chemotherapy, which are often extremely uncomfortable, patients are more likely to continue with their chemotherapy program."

Ondansetron is currently in Phase III trials in the United States. It is also being tested with other chemotherapy agents. Future studies will focus on combining ondansetron with other antivomiting drugs.

## BUSM researchers broaden successful skin-graft study

A pilot study on the efficacy of using cultured skin grafts to treat patients with hard-to-heal leg ulcers has been so successful that BUSM researchers now are expanding the study into a randomized, controlled study of 60 patients. Tania Phillips, M.D., a dermatology fellow who conducted the study, used discarded foreskins from newborn males to grow cultured allografts and evaluated their effectiveness. According to Phillips, the allografts produce more growth factors and seem to promote healing better than adult skin.

In the study, Phillips used neonatal allografts to treat more than 100 leg ulcers caused by a variety of conditions, including poor circulation, pressure sores, diabetes, rheumatoid arthritis and paraplegia. Seventy-three percent of the ulcers healed within eight weeks; the remaining ulcers substantially improved.

Phillips says the technique also helped relieve the pain associated with leg ulcers. This new therapy may offer

hope to the estimated 1.5 million Americans who suffer from chronic non-healing wounds. In addition, Phillips says that this therapy eventually may be useful in treating burn victims.

## Large study implicates marijuana and cocaine in poor fetal outcome

In the only study using urine samples to identify both marijuana and cocaine use during pregnancy, researchers at BUSM and Boston City Hospital conclude that both substances independently are associated with impaired fetal growth. Previous reports of marijuana use during pregnancy may have underestimated this effect because by not using urine samples the investigators may not have accurately identified all users. This study, funded by the National Institute on Drug Abuse and published in a recent issue of the *New England Journal of Medicine*, is the largest prospective study on cocaine use during pregnancy and the first time that urine samples were used to determine marijuana use.

In a controlled study of 1,226 pregnant women at BCH, 27 percent of the subjects had used marijuana while 18 percent had used cocaine. Infants whose mothers had used marijuana had decreased birth weights and lengths; those whose mothers had used cocaine during pregnancy had more pronounced decreases in birth weight and length and also had smaller head circumferences, possibly indicating smaller brains.



Barry Zuckerman, M.D., an associate professor of pediatrics and public health and lead author of the study, said "This study is very important because we have very little documentation of the poor health effects associated with marijuana use during pregnancy. Previous studies relied on self-reporting to determine the level of marijuana use. This study demonstrates that self-reporting is not a reliable measure."

Past studies on cocaine's effect on birth weight during pregnancy had inconsistent findings and were based on small numbers of women. According to Zuckerman, this is the largest systemic study of the general population.

Zuckerman says the study also underscores the cumulative effects of risk factors. Many women who used marijuana and/or cocaine during pregnancy were likely to compound the negative effects of drug use by smoking or not gaining adequate weight during pregnancy. "Women who smoke cigarettes, don't gain adequate weight and have positive urine assays for marijuana and cocaine may have babies almost one pound smaller than women who don't have the same risk factors," says Zuckerman. "These babies are more likely to have disabilities, they don't learn as well and their medical care is very costly." Zuckerman says it is vital that women be advised that marijuana and cocaine use during pregnancy may impair the well-being of their baby.

## Causes and treatment of impotence in diabetics cited in BUSM study

Research that provides the first evidence of functional impairment of erection tissue in males with diabetes demonstrates that diabetes damages nerves and cells that line blood vessel walls in men, a finding that may explain the high prevalence of impotence in diabetic men. The study, conducted by researchers at BUSM and published in the April 20 issue of the *New England Journal of Medicine*, also provides a rationale for using injections of vasodilators rather than surgery for the treatment of impotence in diabetic men.

It is estimated that impotence—one of the most common and least discussed complications of diabetes in men—affects some 2.5 million American men who have diabetes mellitus. In a study funded by the National Institutes of Health (NIH), BUSM researchers followed 63 patients with erectile difficulties; 21 (33 percent) of the patients had a history of diabetes.

Inigo Saenz de Tejada, M.D., assistant research professor of urology and director of the urology laboratory at BUSM, and other researchers conducted several in-vitro experiments on penile tissue obtained when patients underwent surgery for penile implants at the University Hospital.

The results of the experiments demonstrate that diabetes in males impairs both the nerve and endothelial mechanisms that mediate the relaxation of the smooth muscle—a condition necessary for an erection to occur—but does not impair the function of the muscle. The degree of impairment of the autonomic nerves increased with the duration of diabetes, while damage to the endothelial cells did not.

Because the muscle is able to function normally, researchers conclude that diabetic men who are impotent may benefit from injections of vasodilators directly into the penis. The injection of vasodilators induces the relaxation of the smooth muscle. The Food and Drug Administration has not yet approved the use of vasodilators for impotence, and as a result many physicians may not consider this form of therapy for their impotent patients who are diabetic.

"These findings are significant because they may explain why so many diabetics are impotent," says Saenz de Tejada, principal investigator of the study. "We now know that the nerves and endothelial cells necessary for muscle relaxation don't work well in diabetics, which suggests that treatment with the injection of drugs that directly relax the smooth muscle is a rational form of therapy for diabetic impotent patients."

## N.E.'s first interactive tele-radiology/pathology systems improve long-distance consultation

New England's first tele-radiology and tele-pathology systems that allow physicians at distant locations to not only view images of x-rays or slides simultaneously, but also to interact with each other verbally and graphically are now up and running at the University Hospital, Boston City Hospital, the Mallory Institute at BCH and other affiliated institutions.

"This interactive capability will help us make long-distance diagnoses with greater speed and accuracy, since it allows both requesting and consulting physicians to precisely pinpoint areas of concern," says John O'Connor, M.D., a professor of radiology, pediatrics and anatomy at BUSM and a pediatric radiologist at BCH.

The systems are also cost-effective. "Because these systems save doctors covering multiple hospitals time and energy, they ultimately save hospitals money," says Jerome Shapiro, M.D., a BUSM professor of radiology and director of radiology at UH and BCH.

Through the systems, a physician needing immediate consultation captures an x-ray or pathology slide on a video source attached to his personal computer. The image is digitized and then transmitted via phone lines to the computer of a consulting physician. The two physicians can view and discuss identical images, zoom in, pan right or left, and adjust for contrast and brightness. With the aid of an electronic pen and tablet, they can also draw, write, circle or annotate the image on the computer screen. Finally, they can store the image for future teaching or consultation on either computer.

The tele-pathology system has some additional features. It can transmit images of slides in color and display more than one at a time, making it easier for a pathologist to compare pathology slides with control slides or specimens from different parts of the body.

Optel Communications developed the software and the system and worked with O'Connor; Michael O'Brien, M.D., an associate professor of



pathology at BUSM and a pathologist at the Mallory Institute; and Jerome Glickman, Ed.D., director of BUSM's Educational Media Center and an assistant professor at BUSM, to adapt it for these specific clinical uses. Any MS-DOS computer can become a tele-pathology or tele-radiology system with the addition of this software, two telephone lines, a video source and an electronic tablet.

## Pilot study sees rise in heart disease in developing nations

Cardiovascular disease, traditionally considered a problem of industrialized countries, is becoming more common in developing countries. For example, in recent years heart disease has become the leading cause of death in Latin America. According to a pilot study conducted by BUSM researchers in conjunction with the Andean Foundation for Biopathologic Studies and the University of Massachusetts, the causes of this increase are related to lifestyle changes associated with increasing urbanization. Data from this study was presented at the Second International Conference on Preventive Cardiology on June 21 in Washington, D.C.

The researchers studied 191 people who lived in three different degrees of urbanization in Ecuador—rural, town and city—to evaluate the influence of lifestyle on known risk factors for cardiovascular disease, including obesity, high blood pressure, elevated blood cholesterol and cigarette smoking.

They found that those living in

urban areas smoked more, were heavier and had higher blood pressure and cholesterol levels. For example, the amount of fat consumed by those studied varied considerably depending on where they lived. Those living in a rural community had diets containing only 16 percent fat; those in a small town consumed 21 percent of their calories from fat; while persons in the city had diets containing 31 percent fat—a level nearly as high in fat as the typical American diet. Cigarette smoking rates also increased, especially for women in whom the change was almost from 0 percent in the rural areas to over 30 percent in the city.

BUSM researchers Juan C. Zevallos, M.D., and R. Curtis Ellison, M.D., say they are noticing disturbing trends as industrialization comes to the developing world. People adopting a more urban lifestyle in Ecuador are becoming less active, are eating more prepared and fast foods that contain more fat, and, in general, are developing the same bad lifestyle habits that made cardiovascular disease so prevalent in the United States.

BUSM researchers and the Andean Foundation are planning longer-term studies to continue to evaluate the problem and to develop ways to prevent cardiovascular disease from becoming as widespread in developing countries as it is in the United States.

## Geneticists in 19 nations surveyed on major ethical issues

Geneticists in 19 countries including the United States are struggling with new ethical dilemmas as the field of genetics evolves, and they disagree about how some of these issues should be handled. Results of an international study conducted by researchers at BUSPH and the University of Virginia were reported in the July issue of the *Hastings Center Report*.

The researchers surveyed 682 geneticists to determine their views about some of the issues raised by new knowledge and technology in genetics. "We expected to find more of a consensus among geneticists," says Dorothy

Wertz, Ph.D., an associate research professor at BUSPH. "Instead, we found a widespread difference in opinion about some very sensitive issues, such as prenatal sex selection and disclosure of information."

Those surveyed were given theoretical cases that represented typical problems faced by geneticists, including patient confidentiality, mandatory versus voluntary genetic screening and third-party access to screening results. They were then asked how they would respond in each of the situations.

A case that geneticists in Greece, India, Switzerland and Turkey said gave them the greatest conflict involved a situation in which testing revealed that a husband was not the biological father of a child with a genetic disorder. Geneticists overwhelmingly said they would protect the mother's confidentiality (96 percent); most (81 percent) said they would tell her privately so that she could decide how to handle the situation.

In terms of genetic screening, 72 percent thought screening in the workplace should be voluntary (geneticists from several countries supported mandatory screening as a means of protecting the worker); there was a strong consensus (81-89 percent) that employers and insurers should not have access to the results without worker consent; 40 percent thought insurers should not have access even with consent.

Wertz and John Fletcher, Ph.D., of the University of Virginia, concluded their report by suggesting that one of the most difficult future issues involves disclosure. "In genetics, the patient is the entire genetic family rather than the individual," says Wertz. "We think in some cases that the duty to prevent harm to the family takes precedence over the individual right to privacy."

According to Wertz, this survey provides a starting point for ethical discussion about the many sensitive issues confronting geneticists.

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# Kaleidoscope

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## Sandson outlines strategy to curb maldistribution of physicians in U.S.

Dean Emeritus John I. Sandson recently delivered the 1989 oration at the annual meeting of the Massachusetts Medical Society. In his speech, entitled "American Medicine and Medical Education 1989: The Best and Worst of Times," Sandson focussed on a key problem confronting medicine and medical education—the maldistribution of physicians.

"Despite this dramatic growth [in the number of physicians and medical schools], physicians are still not distributed in a way that meets the clinical needs of many United States citizens," Sandson said. "Maldistribution of physicians is an extremely difficult problem that must be addressed very soon."

To increase the number of physicians practicing in remote rural areas and inner cities, Sandson proposed three approaches. The first would be the development of a large United States Physician Corps (USPC), similar to the National Health Service Corps, to place recently trained physicians in medically underserved communities in exchange for payment of a large portion of their medical education expenses. According to Sandson, when the USPC is in full operation it could provide up to 30,000 well trained physicians each year to meet national health-care needs.

The second approach would involve increasing the number of minority students in medical education. Referring to BUSM's Early Medical School Selection Program (EMSSP), the first and only program in the country designed to increase the number of minority physicians through an early admissions program, Sandson said this approach could be replicated at other colleges and universities. According to Sandson, this would allow the Association of American Medical

Colleges to achieve its goal of 16-percent minority representation in the near future and also would increase the number of physicians practicing in underserved communities, since recent data indicate that many minority physicians appear to practice in these areas.

Sandson's third proposed approach would offer optional accelerated medical education programs allowing medical students to complete college, medical school and three years of primary care residency training in fewer than the usual 11 years. "If physicians accelerated their medical education, many would finish medical school and residency training by age 27 or 28 and would complete USPC service at age 29 or 30," Sandson said. "Some may well continue to practice for several years or more in underserved areas after their service obligation is fulfilled."

Sandson estimates that the annual cost for these proposals would reach \$3 billion but, he said, when that is compared to the \$8 billion spent for malpractice insurance premiums in 1987, the amount is not so large. "These proposals are quite ambitious but parts of each of these proposals are already in place and have been shown to work," Sandson said. "The physicians who will enter practice in the 21st century are now in high school and college. We must do everything in our power to assure that the practice environment improves."



*Steven Baker, the founder and former chairman and chief executive officer of Systems Engineering and Manufacturing Corporation and fund-raising chairman for BUSM's Arthritis Center, recently was named Chairman of the Board of Visitors, succeeding Elihu Rose, Ph.D.*

## Board of Visitors given background on major issues at the School

The new frontiers in diagnosing and treating genetic disorders and possible solutions to the problems of Massachusetts physicians were among the presentations BUSM faculty made to the School of Medicine's Board of Visitors during their annual meeting held in June. Other activities during the day-long event included business reports and a luncheon attended by Board members and BUSM students.

During the morning session, Board members heard from Selwyn Broitman, Ph.D., assistant dean for admissions, who spoke on the admissions process of BUSM. Barry Manuel, M.D., associate dean for continuing medical education, and Alan Sager, Ph.D., an associate professor of Public Health, presented "What Are the Problems of Massachusetts Physicians—and How to Solve Them?" Richard H. Egdahl, M.D., director of the Medical Center and chairperson of the coordinating committee on house staff training issues for Massachusetts academic medical centers, addressed the Board members on "The Residency Controversy—Can the Private Sector Do the Job?"

Speakers during the afternoon session included Aubrey Milunsky, M.D., D.Sc., director of BUSM's Human Genetics Center, who presented research on "The New Frontiers in the Diagnosis and Treatment of Genetic Disorders." Carl Franzblau, Ph.D., as-



*During the Board of Visitors' luncheon, Dean Aram Chobanian, right, presented Eliku Rose, Ph.D., a captain's clock as a token of appreciation for his ten years of service as chairman of the Board.*

sociate dean for graduate biomedical science studies, spoke on "Technology Transfer: Liaison with Industry." Other speakers included Dean Aram V. Chobanian; Betty Russell, director of media relations; Herbert Tobin, director of development; and Betsy Stengel, director of government relations.

## Recent honors and awards for BUSM faculty

A number of faculty and staff members recently have received major awards or honors.

**F. Marott Sinex, Ph.D.**, a professor and chief of the section of biomedical gerontology, was honored as Humanitarian of the Year by the Alzheimer's Disease and Related Disorders Association of Eastern Massachusetts. The award was presented at the Association's annual meeting. According to Nancy Hindlian, the organization's vice-president, Sinex has contributed significantly to the formation and development of the Association. Sinex, who has been on the faculty of BUSM since 1956, is particularly interested in the association of Alzheimer's disease with multi-infarct dementia and the possibility that the two diseases may share common risk factors. He also recently completed a book on Alzheimer's disease in which he argues that it is preventable.

**Barry S. Zuckerman, M.D.**, an as-

sociate professor of pediatrics and of public health, has been awarded a Harris Foundation Fellowship in Child Development and Social Policy. The award will allow Zuckerman to pursue his research regarding children's development and behavior, primarily focusing on those factors that affect children living in poverty.

The Ambulatory Pediatric Association presented the Armstrong Award, its highest honor, to **Joel J. Alpert, M.D.**, professor and chairman of the department of pediatrics. According to Steven P. Shelov, M.D., president of APA, the award is given each year to the individual who is recognized by his colleagues as an exemplary pediatrician and holds the values and goals of George L. Armstrong in the highest regard.

**R. Knight Steel, M.D.**, a professor of medicine and director of the Gerontology Center, recently received the 1989 Milo D. Leavitt Jr., Memorial Award from the American Geriatrics Society (AGS). The award, established in 1984, is given annually to an eminent educator in the field of geriatrics.

**Victoria L.M. Herrera, M.D.**, an assistant research professor of medicine, was named a 1989 Syntex Scholar for her contributions in cardiovascular research. BUSM will receive \$150,000 over three years to enhance Herrera's research capabilities.

**Richard A. Cohen, M.D.**, an associate professor of medicine and physiology, was elected president of the American Federation for Clinical Research.

## Presentations

Faculty members recently participated in a number of presentations, including the following:

**Robert J. McCunney, M.D.**, an assistant professor of public health, and **William B. Patterson, M.D.**, an assistant professor of medicine and public health, recently made presentations at the American Occupational Health Conference at the John B. Hynes Veterans Memorial Convention Center in Boston.

**Barry M. Manuel, M.D.**, associate dean, has made several presentations including "The Future of Health Care in Massachusetts" to the Essex South District Medical Society, "Medical Liability Reform" to the Harvard Medical School Continuing Medical Education program, and "The Future of the Practice of Surgery" to the American College of Surgeons.

**Lyn Weiner, M.P.H.**, an associate professor of psychiatry and executive director of the Fetal Alcohol Education Program, recently presented the Henry L. Rosett Memorial Lecture for the Departments of Obstetrics and Gynecology, Mt. Sinai Hospital, New York. Weiner's lecture was titled "Alcohol and the Fetus: A Clinical Perspective," and focused on the role of primary providers in the prevention of alcohol-related birth defects.

**Aram V. Chobanian, M.D.**, dean of the School of Medicine, testified before the House Appropriations Subcommittee on Labor, Health and Human Services and Education on the need for funds for research and health manpower.

## New text on AIDS

**Sami J. Harawi, M.D.**, an assistant professor of pathology and dermatology, helped write and edit a new textbook published on the pathology of AIDS. The multi-authored book, published by Chapman and Hall, contains a number of chapters written by BUSM faculty. Titled "Pathology and Pathophysiology of AIDS and HIV-Related diseases," the book promotes understanding a disease process on the cellular and tissue level in order to gain a clearer perception of the clinical manifestations of that disease.

## Group from BUSM inducted into AOA honor medical society

Several School of Medicine students from the Classes of 1989 and 1990 were inducted into the Alpha Omega Alpha (AOA) Honor Medical Society in a ceremony held on March 23 at the Castle. Members of the class of 1989 inducted include Jules S. Abadi, Brian B. Bloom, John T. Carroll, Marc B. Danziger, Paula A. DeYoung, James T. Go, Anil K. Goyal, Jill E. Heytens, Joseph P. Kannam, Kenneth P. Kato, Jay H. Kim, Gregory D. Middleton, Jay E. Rosenfeld, Eric J. Sax, David S. Silver, and Takahisa R. Takei. Inductees from the class of 1990 were Megan A. Callahan, Kamal K. Kalia, Bruce R. Kastin, Michael S. Katcher, Adrian W. Ong, Jean E. Ramsey, and Ronald B. Schwinger.

House Officers inducted into AOA

include Stuart J. Arbesfeld, M.D., Margaret A. Ferrell, M.D., and Scott A. Mackler, M.D. Also inducted were Carl S. Apstein, M.D., a professor of medicine and a research professor of physiology, as a faculty member inductee, and Alvin N. Eden '52 as an alumnus inductee.

An AOA student research fellowship was awarded to John M. Timmerman '91, providing him with \$2,000 in support of his research entitled, "Modulation of CA125 Tumor Antigen Expression by Biological and Chemical Agents". Timmerman is the first BUSM student to ever receive the scholarship.



*Gerald Stechler, Ph.D., a professor of psychiatry, presented "A Future for Psychoanalysis" in the Jacob Swartz Memorial Lecture, sponsored by the Division of Psychiatry and the Alumni Association.*



*Dean Aram Chobanian addressed AOA inductees, family and friends at the honor society's induction ceremony.*

## Whitaker Fund awards \$600,000 to BUSM research projects

The Whitaker Health Sciences Fund has awarded ten \$48,000 grants to BUSM junior faculty members collaborating on research with Massachusetts Institute of Technology faculty members in the biomedical area. The Fund awarded a total of \$600,000 in research grants, effective July 1, to BUSM.

School of Medicine recipients of the Whitaker awards for the 1989-90 fiscal year are: Deborah E. Dobson, Ph.D., an assistant professor of biochemistry; John R. Duguid, M.D., an assistant professor of neurology; Gyorgy Frenzl, M.D., an instructor of medicine; Dharma R. Kodali, Ph.D., an instructor of biophysics; David M. Larson, Ph.D., an assistant professor of pathology; Nadia A. Rosenthal, Ph.D., an assistant professor of biochemistry; Bruce J. Schnapp, Ph.D., a research associate professor of physiology; Charles Seymour, Ph.D., an assistant professor of microbiology; Kathy K. Svoboda, Ph.D., an assistant professor of anatomy; and Ken S. Zaner, M.D., an assistant professor of medicine.

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# In Memoriam: Joseph Stokes III, M.D.

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Joseph Stokes III, M.D., an internationally known leader in preventive medicine and cardiovascular epidemiology and a co-principal investigator of the Framingham Heart Study, died June 12 at the University Hospital at the age of 64 of cancer.

Stokes was a professor of medicine and public health at Boston University School of Medicine and a member of the section of Preventive Medicine and Epidemiology at the Evans Department of Clinical Research at the University Hospital. He was a former dean of the University of California, San Diego, School of Medicine, and had been associated with the Framingham Heart Study—the world's longest running epidemiological study of coronary heart disease—for many years. He was recently honored with the prestigious Distinguished Service Award from the American College of Preventive Medicine.

Stokes was the author of 84 publications, was co-editor of a book on medical education and contributed chapters to several books. His work contained the original epidemiological description of the "silent coronary." He served as editor of the *American Journal of Preventive Medicine* since 1986 and was the former associate editor of the *New England Journal of Medicine*.

Stokes was the fourth generation of physicians in his family. He attended Haverford College in Pennsylvania and graduated *magna cum laude* from Harvard Medical School in 1949. He served his residency training at the Johns Hopkins Hospital in Baltimore and at Massachusetts General Hospital in Boston. He also trained in epidemiology and biostatistics at the Harvard School of Public Health.

In 1951, Stokes joined the U.S. Public Health Service and was assigned to the Framingham Heart Study three years after it began. He became a member of the Department of Preventive Medicine at Harvard Medical School in 1954 and directed the Family Health Program at MGH.

In 1964, Stokes became the first dean of the University of California, San Diego, School of Medicine. He spent 18 years affiliated with the school and served in a variety of roles, including chairman of the Department of Community and Family Medicine.

In addition to his faculty appointment at BUSM, Stokes served as an adjunct professor in the Nutrition Program at the Sargent College of Allied Health Professions; as a research associate at the Center for Educational Development in Health at Boston University, and as a lecturer in the Department of Preventive Medicine at Harvard Medical School.

He also served on a variety of committees of the National Heart, Lung and Blood Institute and was past president of both the Association of Teachers of Preventive Medicine and the Association of Behavioral Sciences and Medical Education.

Stokes was a birthright Quaker and a member of the Friends Meeting in Cambridge. He is survived by his wife, Ruth Whitson Stokes, and four children: Peter Whitson Stokes of Newbury, Mass.; Margaret Stokes Holt of Arlington, Mass.; J. Barclay Stokes of Volcano, Hawaii; and Joseph Stokes of Hoboken, N.J.; and three grandchildren.

## Three BUSM colleagues recall Joe Stokes

BUSM faculty, staff, students and friends joined members of Stokes family at a crowded memorial service in BUSM's Hiebert Lounge June 26 to honor the memory of the late Dr. Stokes. Stokes also was memorialized at a service attended by numerous family, friends and professional colleagues June 16 at the Friends Meeting in Cambridge.

The BUSM memorial service was presided over by Rev. Laurel Burton, the Hospital's director of Pastoral Care and Education. Burton called the ser-



Joseph Stokes III, M.D.

vice "a time of exquisitely mixed emotions: of sadness of loss, of joy of remembering, of gratitude for a life lived and contributions made."

The following are excerpts from remarks delivered at the memorial service by Dean Aram Chobanian, Norman Levinsky, M.D., the Wade Professor of Medicine and chairman of the Division of Medicine, and William B. Kannel, M.D., M.P.H., a professor of medicine and public health.

## Chobanian: He was a remarkable man

Joseph Stokes was a remarkable man... Although Joe was one of my instructors in preventive medicine when I was a medical student, I did not get to know him well until 1981, when he expressed interest in moving to Boston University School of Medicine to work in cardiovascular epidemiology with Bill Kannel and other members of the Cardiovascular Institute.

In the eight years that Joe was at Boston University School of Medicine, he contributed immensely to the Medical School, to the Division of Medicine, and to its Section of Preventive Medicine and Epidemiology. He worked closely with many of us and became a role model for all. He was often asked to take on very difficult tasks and never refused to do so. He did this even though the work represented an add-on to an already full schedule and provided no financial or other benefits except for the satisfaction of seeing a difficult task accomplished.

Joe was a friend to many of our faculty, staff, medical students and house staff. He had a twinkle in his eye and a wonderful sense of humor, even up to the day of his death. He was a humble individual who never boasted of his ac-

complishments. In his talk at the Symposium dedicating the Cardiovascular Institute just a few days before his death, he mentioned briefly the course of his career which, he stated, followed the RETEP principle. He indicated that this was the reverse of the Peter Principle: He had gone from being a Dean to Department Chairman, and from Department Chairman to Professor.

Joe dealt with his terminal illness and agonies with more dignity and maturity than I have seen exhibited by any individual. He indicated to me that he was able to do this because of his religious convictions and the love for him exhibited by his family and friends. He was a role model in living and in dying. Joe was an unusual man and all of us here will miss him.

### Levinsky: The letter writers were right

I met Joe for the first time in 1981, when he agreed to join Bill Kannel in the Evans Department's Preventive Medicine Section. I recall receiving many strong letters endorsing this distinguished physician's appointment. Here are some examples:

From a leading epidemiologist: "(Joe is) one of the senior distinguished contributors to the epidemiology and prevention of cardiovascular diseases in this country. He is a refreshing, thoughtful and skilled teacher."

From a leading academic cardiologist: "Dr. Stokes is a superb, enlightened and stimulating teacher, a fine human being and a marvelous colleague....His standards of scholarship and behavior are of the highest."

From a leader in preventive medicine: "Joe has many fine personal attributes in addition to his scholarly abilities; you will find him a delightful, personable colleague."

What was notable in all of these letters was the repeated reference to Joe the superb human being as well as Joe the outstanding academician, comments not common among letters I receive.

The letter writers were correct. Joe became a key member of Bill Kannel's team at Boston University and Framingham. Indeed, if Bill doesn't mind my revealing it, Joe took over many admin-

istrative responsibilities during Bill's numerous trips.

Joe was indeed a "refreshing, thoughtful and skilled teacher." Within the Department of Medicine, he was most visible in guiding medical residents and fellows in epidemiological studies at Framingham. He was a sought-after mentor and advisor to all of our trainees.

But it was his collegial qualities that I noticed most. Although he was not a clinician, Joe faithfully attended faculty meetings—when others more directly involved in matters under discussion did not. He not only attended, but he contributed. Joe was alert and interested, always generating suggestions and offering tactful criticisms.

Others have abandoned grand rounds and conferences, but Joe did not. At grand rounds, there was Joe up front, listening, thinking, questioning, contributing.

When I became Chairman of the Department of Medicine, my predecessor, Robert Wilkins, M.D., said that there were many able faculty but only a few he could depend upon to care about the Department, not just their own bailiwicks. He called them the "few golden ones." Joe was golden.

It may be appropriate to close with a quote from one of the house staff who cared for Joe during his last admission at the University Hospital:

"Dr. Stokes was a lovely man. He was so kind and gentle. It's sometimes intimidating to care for senior faculty. Not with Dr. Stokes." Then this house officer added: "I didn't know him at all until I met him as a patient. That's too bad: I missed out."

Joe was a man who inspired such feelings in those who knew him, however briefly and in whatever context. We shall miss him.

### Kannel: Clearly, he was a man of action

Joseph Stokes's death is especially poignant for me because of our long friendship, professional association and parallel careers. We both graduated from medical school in 1949 *magna cum laude* as over-achievers. We were both

indoctrinated into preventive medicine early in our careers, he in 1951 and I in 1950. We both began our preventive and epidemiologic indoctrination in the Framingham Heart Study of the United States Public Health Service. We were both active members of Dr. David Rutstein's Department of Preventive Medicine at Harvard Medical College. We both came to Boston University, he in 1981 and I in 1979, to expand the activities of the Section of Preventive Medicine. We both have had a long and abiding interest in preventive medicine.

However, whereas my interest was predominantly research-oriented, Dr. Stokes' interest was more broadly based. Also Joe Stokes was clearly a man of action. He liked to get things done. His interest in preventive medicine was translated into action in a most comprehensive fashion.

Dr. Stokes was always a willing, energetic and productive participant in national committees to formulate policy and produce guidelines. As a result of these activities and his research, he was a nationally known and respected internist and researcher.

His colleagues, students, fellows and house officers will particularly grieve his passing because his door was always open to them for counseling, help with career choices and assistance with research. He was a vigorous, kind and productive member of our Section of Preventive Medicine and Epidemiology and also was a valued member of the senior B.U. faculty. Although he was 64 years old, he was clearly taken before his time, as he was planning an active, productive role until the age of 70 years.

He faced the knowledge of his terminal illness with incredible fortitude and serene resignation. He was as concerned with the effect of his illness on those around him as on himself. He continued to work at what he loved to do virtually to the very end. It is with particular sadness that we here acknowledge his passing so prematurely when he had so much he still wanted to accomplish. He was a gifted teacher and investigator who derived great personal satisfaction from his association with colleagues, students and trainees. We shall all miss him greatly.

# Targeting Heart Disease

*Experts gather at BUSM to develop strategies for cardiovascular disease in the 1990s*

by Marjorie H. Dwyer

**A**lthough the mortality rate for heart disease has fallen more than 30 percent in the past two decades, the disease remains the nation's premier preventable health problem. Heart disease claims more than 900,000 American lives each year—nearly half of the nation's total number of annual deaths.

Heart specialists who gathered at Boston University Medical Center last spring said that the key strategies to further reduce that death rate now should center on more individualized treatment plans and on increased prevention efforts, especially among young people.

Several hundred internationally known experts in all facets of cardiovascular disease took part in a symposium sponsored by the School of Medicine to examine issues and strategies surrounding heart disease treatment and prevention in the coming decade. A recurring theme in the two-day program was the complexity of heart disease, a phenomenon in which human behavior and personal choice can combine with genetic makeup, environment and chance events to make one prone to developing the disease.

The symposium, entitled "Prevention and Treatment of Cardiovascular Disease in the 1990s," was part of Boston University's

Sesquicentennial celebration. It also was the fourth in a series of national health-policy conferences sponsored by the National Research and Demonstration Center for Hypertension, based at the School's Cardiovascular Institute.

Chairing the sessions were several faculty members who have

made major contributions in heart disease research, Donald M. Small, M.D., chairman of the Department of Biophysics; Carl Franzblau, Ph.D., chairman of the Department of Biochemistry; and Carl S. Apstein, M.D., a professor of medicine at BUSM.

## A 40-year record of achievement

Symposium participants frequently cited the School of Medicine's many contributions in cardiovascular research and treatment. In the opening session, University President John Silber lauded the School for being a "forward-looking" institution, with its pioneering efforts to set health policy regarding heart-disease research and treatment, as well as in innovative medical education, and efforts to improve the well-being of mankind.

For more than 40 years, Boston University School of Medicine researchers have had a distinguished record of accomplishments in cardiovascular disease research and treatment.

Achievements cited by Dean Aram Chobanian ranged from

pioneering work in rauwolfia and diuretic drugs to developing the step-care approach, which has remained the recommended hypertension treatment for the past three decades. School researchers several years ago were instrumental in the development of captopril and other angiotensin converting enzyme inhibitors, which Chobanian said "revolutionized the treatment of hypertension."

For more than two decades, BUSM has provided leadership for the Framingham Heart Study, an internationally known epidemiological study that coined the term "risk factor" and has been a vital resource in understanding cardiovascular disease.

## Panelists focus on health costs, policies for the coming decade

There's one bed open in the Coronary Care Unit and no other hospital nearby. Two patients have severe angina. One is an 86-year-old grandmother; the other, a 46-year-old mother of five. Which one do you admit? How long should she stay in the unit? Who should decide: you, your peers, the government?

This scenario, while not resolved, typifies the difficult issues raised during the Seymour A. Kaufman Memorial Lecture panel discussion April 25 entitled "National Health Policy Implications of Cardiovascular Diseases in the 1990s." Arnold S. Relman, M.D., editor-in-chief of the *New England Journal of Medicine*, was moderator.

Panelists were Eugene Braunwald, M.D., the Hersey Professor of Medicine at Harvard Medical School; BUSM Dean Aram Chobanian, director of the National Research and Demonstration Center in Hypertension; Medical Center Director Richard H. Egdahl, M.D., who heads the University's Health Policy Institute and is academic vice president for health affairs at the University; and Thomas J. Ryan, M.D., a cardiologist and a professor of medicine at the School and former president of the American Heart Association.

While some progress has been made in curbing the disease, the number of Americans with heart disease and with major cardiovascular risk factors remains high. Nearly 60 million Americans, including two-thirds of the elderly, have hypertension; 35 percent of all Americans smoke, and another 25 percent of Americans have hypercholesterolemia, said Chobanian, who chaired the Joint National Committee on Detection, Evaluation and Treatment of High Blood Pressure.

Noting that prevention methods cost dramatically less than medical



Panelist Thomas J. Ryan, M.D., left, cited the need for established guidelines and a precise knowledge base to help physicians determine the best heart disease treatment.

care for patients having heart disease, Chobanian asked, why aren't we doing more in terms of prevention? Only 18 percent of the National Heart, Lung and Blood Institute's \$1-billion budget is spent on prevention, he said, citing the need for a national campaign on diet, smoking and exercise. "There simply is no question that in the future we must emphasize risk-factor reduction and prevention of cardiovascular disease," Chobanian said.

### High health-care costs

Braunwald, past president of the American Society for Clinical Investigation and a member of the National Heart, Lung, and Blood Institute Advisory Council, also compared the costs of high-tech treatment methods to that of low-technology therapies. For instance, he said, it is estimated that there may be 20,000 to 30,000 candidates per year for cardiac transplants or artificial hearts. Medical costs for a patient who undergoes either procedure generally exceed \$110,000 and, if successful, generally only add a few years to a patient's life, Braunwald said. These figures contrast sharply with such less-intensive interventions as smoking cessation programs.

Egdahl, a consultant to industry on health-care delivery, said neither industry nor the government can continue to pay two to three times the

general inflation rate for health benefits for workers. A way must be found both to cap medical inflation and to pay for benefits for the uninsured, he said. Consensus panels made up of medical experts, he said, may help standardize treatment in the future. But how do you select those who would set the standards? How would the standards be used?

Variations in practice patterns may account for some of the present high health-care expenditures, said Ryan, who heads the Cardiology Section at the University Hospital. Practice patterns differ according to physician personality, practice region and case mix. Physicians sometimes lack facts, data and guidelines that would help determine the best treatment. Sometimes patients don't supply important information, he added. "We're working from an imprecise knowledge base," he said. "There are enormous patient expectations and demands on physicians that account for some of this variation....Clearly, there is some compulsion to practice defensive medicine," he said. Ryan also foresees increased guidelines that establish what procedures physicians can and cannot do. "In the '90s, the autonomous physician is going to disappear," he said.

## Risk Factors:

### There's no such thing as a single cause of heart disease

Four decades of epidemiological research in the Framingham Heart Study and elsewhere has made it clear that there is no single cause of heart disease. Instead, a "multiple-risk profile" is a more accurate way to portray an individual's chance of developing heart disease.

This point was made by a number of symposium speakers discussing risk factors, including William Kannel, M.D., chief emeritus of the Section of Preventive Medicine and Epidemiology, former Framingham Study director and a professor of medicine, who presented a status report on cardiovascular risk factors. He discussed how the Study has fostered the multivariate etiology of disease concept and established the risk-factor profile. Risk factors he and others discussed included atherogenic traits, such as lipoproteins, cholesterol, glucose tolerance, triglycerides, fibrinogen and blood pressure, and lifestyle habits, such as overeating, smoking and lack of exercise. Kannel and others reiterated the point that no one factor has the same impact on every individual, making it impossible to identify a single cause; each factor must be taken into account. Current research, Kannel said, aims to determine how to evaluate a patient's risk profile.

### Promoting healthy habits

Physicians need to help the public develop better skills to modify unhealthy behaviors, Kannel continued. For instance, he said, people have to be taught that they don't have to give up "good food" to eat a healthy diet; physicians should encourage patients to adopt a Mediterranean or oriental diet. In addition, physicians can do much to help patients stop



*Arno G. Motulsky, M.D., a professor of medicine at the University of Washington and a noted geneticist, discussed how genetic patterns, environmental factors and random chance can combine to make one susceptible to heart disease. He cited studies in which individuals who lived in a part of the world where the heart-disease rate is low moved to Western society and subsequently developed high blood pressure, suggesting environment influences one's susceptibility to hypertension.*

smoking: Just tell the patient to quit, he advises.

R. Curtis Ellison, M.D., a professor of medicine at BUSM and the new chief of the Evans Section of Preventive Medicine/Epidemiology at the University Hospital, emphasized that the public at large should not be neglected in efforts to focus on high-risk patients. He discussed his studies in which age-related rises in blood pressure and cholesterol levels in teen-age boys were offset by reducing salt and fat served in a school cafeteria. "Atherosclerosis is no longer considered as an inevitable aspect of aging. Prevention of coronary heart disease is a real possibility," said Ellison, a principal investigator in the Framingham Study.

Several speakers cited a need to convince the food industry to serve healthier food. "We need to focus on food-service workers, to teach them to buy low-sodium food, add less salt in cooking and remove high sodium items from the menu," Ellison said. **(See related story in Research in the News section, pg. 8).** He is involved in a national trial

aimed at promoting healthy lifestyle habits in schoolchildren and has conducted studies in which peer leaders helped to successfully reduce by one third the number of schoolchildren who smoke.

A number of the speakers emphasized the need to target young people. Showing a slide depicting four generations of a Framingham Study family, Ellison said half of the great-grandmother's peers have died from heart disease; her son has angina; his daughter, in her 30s, smokes and has high cholesterol; but her young daughter has no evidence of heart disease. If prevention efforts are targeted now at children, "our children may be spared from evidence of heart disease," Ellison said.



*Aubrey Milunsky, M.B.B.Ch., director of BUSM's Center of Human Genetics, stressed the importance of medical genetics in the diagnosis and treatment of heart disease and other disorders. He discussed strides made in Center studies of three diseases in which cardiomyopathy is a significant symptom. Advances in human genetics in general have raised a number of ethical issues, such as the patient's right to know or not know, and quality-of-life issues, he said. He predicted one day parents will be asking pediatricians for a gene profile to initiate prevention methods.*

## Cholesterol:

### A 'Jekyll and Hyde' substance

Cholesterol is both "vital and lethal" to humans, according to Nobel laureate Joseph L. Goldstein, M.D., who addressed the symposium on the nature of cholesterol.

While cholesterol is an essential body element, low density lipoprotein (LDL) cholesterol is a key culprit in atherosclerosis, said Goldstein, who is chairman of the Department of Molecular Genetics at the University of Texas Southwestern Medical Center at Dallas. While humans have developed a sophisticated cholesterol-regulation system, our appetite for rich foods has overwhelmed that system.

"Atherosclerosis is the end result of the collision between our diet and our genes," he said. One million Americans now take the new cholesterol-lowering drug Lovastatin, he added.



Donald M. Small, M.D., chairman of the BUSM Biophysics Department, discussed the complex nature of cholesterol and its components, including atherosclerotic plaque. He described how plaques develop, with precursors found in young people at puberty and "real" plaques found in young adults in their twenties. The layers of an atherosclerotic plaque are like "rings of a tree," he said: old crystals are in the central core; newer cells make up the middle layer; and the outer layer consists of foam cells, which are the newest deposits.



Haralambos P. Gavras, M.D., a professor of medicine at BUSM and chief of the UH Hypertension and Atherosclerosis Section, discussed the neural changes that lead to constriction of the arteries. Gavras, who is known for his work on salt-sensitive hypertension, said about 25 percent of the general population is salt-sensitive. In future studies Gavras hopes to find genetic mutations to determine how salt causes blood pressure to rise.

Goldstein and his colleagues isolated and cloned the LDL receptor, and concluded that this receptor, which is made up of more than 800 amino acids, is responsible for the transport and delivery of cholesterol to cells.

One person in a million has the abnormal gene for high LDL, and some ethnic groups—like the French Canadians and Lebanese—have a higher-than-normal incidence of hypercholesterolemia, Goldstein said. He referred to the case of a six-year-old girl who suffered a heart attack; she had inherited an LDL receptor deficiency from both parents.

Seventy percent of all LDL receptors are found in the liver, he explained. If the receptors malfunction, possibly due to the effects of a high-fat diet, cholesterol can build up in the blood and form plaques on artery walls. "Minor changes in receptor functioning have great effects on the individual," Goldstein said.

## Targeting Therapies:

### New directions in treatment

Despite the host of treatment modes available to physicians in dealing with heart patients, one factor is vitally needed to cut heart disease rates: major improvement in targeting the varied therapies to meet individual patients' specific needs. The need for finding just the right combination of treatments to treat presenting symptoms was raised in numerous talks at the symposium, and was the theme in Dean Chobanian's overview.

"In spite of an extensive array of therapies that could potentially treat all hypertensives, we target poorly," said Dean Aram Chobanian in his talk on hypertension treatment.

Chobanian discussed the difficulty of matching patients with nonpharmacologic treatments for hypertension; these interventions have not been considered very effective to date. Patients too often are asked to



Eugene Braunwald, M.D., chairman of the Division of Medicine at Harvard Medical School, reviewed the history of heart-attack treatment and discussed the role of thrombolysis, a procedure that opens the blood supply to the heart by dissolving clots. Acute myocardial infarction treatment in the future will include reperfusion therapy for patients unable to get to the hospital in time for thrombolysis, prevention of platelet aggregation and reocclusion through the use of monoclonal antibody techniques, and myocardial reperfusion in cases of limited infarct size. "In all cases, the earlier the therapy the better," he said.



*Edward D. Frohlich, M.D., vice president of the Alton Ochsner Medical Foundation in New Orleans, discussed the role of pharmacologic agents in reversing ventricular hypertrophy, which is an independent risk factor related to hypertension, and one that is linked to sudden death and arrhythmias. Antihypertensive agents will decrease the size of the enlarged heart if the patient is treated long enough. However, he noted, when the patient stops the medication, blood pressure goes up abruptly.*



*Antonio M. Gotto Jr., M.D., chairman of the Department of Medicine at Baylor College of Medicine, elaborated on the hypothesis that as serum cholesterol or LDL concentrations rise, so does the coronary disease rate. He also discussed lipid regulation, and the role of diet and smoking on LDL cholesterol levels. Drug therapy should be reserved for extremely elevated LDL levels, Gotto said.*



*David P. Faxon, M.D., an associate professor of medicine at BUSM and director of the cardiac catheterization lab at UH, said an ideal therapy for heart attack does not yet exist. He said thrombolytic therapy should be used only when it can begin in the early hours of the attack. "Less than 10 percent of patients with the symptoms ultimately benefit from thrombolysis, due to the excessive numbers of eligibility exclusions," Faxon said.*

make sweeping lifestyle changes that they are unable to make. Instead, Chobanian suggested, physicians should propose one or two changes

that the patients are capable of making.

Most people's hypertension can be controlled with drugs, Chobanian

said. In 50 percent of patients, it can be controlled with one drug; in 85 to 95 percent, with only two drugs, he explained.

Lowering blood pressure remains an important goal in reducing the risk of strokes, left ventricular hypertrophy and congestive heart failure, Chobanian said. Hypertensives also are more likely than normotensives to have other risk factors, such as hypercholesterolemia, glucose intolerance and obesity. Recent studies also tie hypertension directly to atherosclerosis, combining with hyperlipidemia to form plaques, he continued. "The therapies for hypertension have stabilized; therapeutic breakthroughs now will occur by treating the combinations of cardiovascular risk factors," Chobanian said.



*During the symposium, University President John Silber commended the School for its landmark achievements in the prevention of cardiovascular disease.*

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## Cardiovascular Institute named in honor of longtime friends of the School

One day in 1963, when Dean Aram Chobanian was a new faculty member, a man named Uncas A. Whitaker walked into his lab with Robert W. Wilkins, M.D., who headed the School's pioneering hypertension research team. Whitaker asked Chobanian what he was doing. Whitaker, who had had a heart attack several years earlier, was impressed by what he learned about cardiovascular research at the School and chose to support its programs.

Thus began a long relationship in which Whitaker and members of his family and the Whitaker Foundation have supported research at the Institute. Several years after Whitaker's death in the late '70s, his widow, Helen, established the U.A. Whitaker Laboratory for Blood Ves-

sel Research in the Instructional Building. In addition, the Whitaker Health Sciences Fund supports collaborative research projects between BUSM and Massachusetts Institute of Technology faculty. This year the School will receive ten \$60,000 grants.

To pay tribute to the family's contributions, the Institute was dedicated in the name of U.A. and Helen Whitaker in a ceremony April 25 as part of the symposium. Several hundred persons attended the event in Hiebert Lounge, at which Chobanian and University President John Silber presided.

"The Whitaker contributions to our institution have been enormous," said Chobanian, who has directed the Cardiovascular Institute since its founding in 1974.

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*"We honor the memory of U.A. Whitaker, whose genius as an engineer, administrator and entrepreneur was matched by his public concern and generosity."*

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He presented plaques to the Whitakers' daughter, Ruth Holmes, and her husband, Dr. Bert Holmes. A plaque also was presented to Miles Gibbons, executive director of the Whitaker Foundation.

In his tributes to the Whitaker family, Silber said, "We honor the memory of U.A. Whitaker, whose genius as an engineer, administrator and entrepreneur was matched by his public concern and generosity. We also honor his wife, Helen, who continued his work following his death."

Whitaker, who was born in 1900, held engineering degrees from MIT and Carnegie Tech. He worked as an engineer for Westinghouse, and later directed research for the Hoover Co. He founded and was chief operating officer of Aircraft Marine Producers, which later became AMP Inc., a Fortune 500 company. He pioneered numerous products, including a solderless wiring connection.

The Cardiovascular Institute has 60 scientists and more than 100 support staff conducting a broad array of cardiovascular research projects, ranging from basic research to clinical trials.

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*Marjorie H. Dwyer is the former Associate Director of the Medical Center's Office of Publication Services.*



*As part of the dedication of the Whitaker Cardiovascular Institute, Dean Aram Chobanian, right, presented a plaque to Ruth Holmes, daughter of Uncas and Helen Whitaker, and her husband, Dr. Bert Holmes.*

# A I D S :

*For medical students, there's  
far more than a medical challenge*

by Richard P. Anthony

"Whatever specialty you choose, you're going to be dealing with AIDS patients..."

*Nicole Prudent, M.D.,  
Speaker, AIDS Awareness Day*

**F**or the students from the four Massachusetts medical schools who came together for the first AIDS Awareness Day, the day's discussions made it clear that for physicians AIDS is far more than simply a medical challenge.

Throughout the event, which was sponsored by Boston University School of Medicine, it was the emotional, social and ethical impacts of AIDS that took center stage. Many speakers, for example, focused on the fears associated with the disease.

John Kobe, an AIDS patient from Boston, told the nearly 350 first- and second-year students at the session that dealing with fear is the toughest challenge he faces. Noting that a prior speaker had compared having AIDS to being hit by a car, Kobe said that for him, it is more like "a nightmare in which the car is going to hit you but it hasn't yet, and you're just anticipating that it's going to happen."

A student panelist, Lee Quall of Harvard Medical School, suggested that society's fears can shape students' reactions to AIDS. The public, he said, is supportive of students' efforts to learn how to deal with most diseases, but as for AIDS,



*Arthur Culbert, Ph.D., encouraged students to promote the idea of making an AIDS Awareness Day a standard part of their respective schools' curricula.*

"we're being given the message that it's okay to back off. We have to treat the patient with tuberculosis, but not the patient with AIDS."

Yet if one of the day's major themes was that AIDS has unique emotional and social impacts, several speakers offered strategies for dealing with the concerns evoked by the disease.

Booker Bush, M.D., the medical director of a Beth Israel Hospital clinic that treats many AIDS patients, said his group is set up so as to minimize the risks of staff burnout associated with treating AIDS patients. "For the most part," he noted, "no doctor has more than one or two such patients."

The AIDS conference, held at the

College of Basic Studies on Boston University's Charles River campus May 6, grew out of concerns among BUSM and Boston University School of Public Health faculty that medical students are not being well prepared to deal with the many facets of AIDS.

A major impetus for the conference was a fall 1988 survey of first-year students at BUSM. The survey, carried out by Arthur Culbert, Ph.D., an associate professor of public health (social and behavioral sciences), and others, showed that many of the students had sketchy or erroneous notions about AIDS.

"What really bothered us was that more than 40 percent of the students said they didn't feel they had any obligation to treat AIDS patients," said Culbert.

Disturbed by the findings, Culbert and one of his collaborators, Lee Strunin, Ph.D., an associate professor at the School of Public Health, began planning a conference for medical students on social and ethical aspects of AIDS. The result was AIDS Awareness Day.

The day's keynoter was Deborah Prothrow-Stith, M.D., then the state commissioner of public health and an assistant professor of medicine at BUSM. She reported that the state already has more than 1,000 individuals with AIDS, and that an estimated 30,000 more are infected by the AIDS virus.

Prothrow-Stith offered various

strategies for confronting the AIDS dilemma, including sharply stepped-up educational efforts and more extensive drug-treatment options. Also urgently needed, she said, are more physicians "who are willing to say, 'Yes, I want to treat people with AIDS.'"

Other speakers said that special approaches are essential in combating AIDS. Donald Craven, M.D., head of the Clinical AIDS Program at Boston City Hospital and an assistant professor of medicine and public health at BUSM, said one implication of AIDS is that "we're going to have to re-evaluate exactly what our roles as physicians should be."

Physicians, he told the students,

who is with the Boston-based Women and AIDS Network, said efforts to convince prostitutes to practice safe sex are complicated by the fact that many patrons will pay extra for sex without condoms. She said her group is trying to persuade women that the risks are not worth the extra money. "We plan to work with both the johns and the prostitutes," said Portis. "We've already got some prostitutes in our network."

Benjamin Siegel, M.D., an associate professor of pediatrics at BUSM and a staff member at Boston City Hospital, warned that education alone will not halt the spread of AIDS. As the disease increasingly takes hold among poor and minority popula-

the cases involved a married man who was hospitalized with symptoms of pneumocystis carinii pneumonia, which is often associated with AIDS. The patient refused any diagnostic tests, either for the pneumonia or for AIDS, said Daley, and insisted that his wife not be told of the tentative diagnosis.

The panelists generally agreed that as long as the patient was hospitalized, the best course would be to honor his request, while trying to persuade him to go ahead with the tests and to talk to his wife. "He needs to be able to deal with this in a personal way, and then bring his wife into it," said Millie Kilmartin, R.N., a nurse with the BUSM-affiliated Framingham Union Hospital. The case, though, also triggered a discussion of what to do when such strategies fail.

As a general rule, patients have the right to refuse to have their conditions revealed, said Wendy Mariner, J.D., an associate professor of health law at BUSPH. But, she added, there are certain circumstances where it is acceptable to breach patient confidentiality. The key issue, she said, is whether maintaining it does "greater harm" than not doing so.

A major problem for physicians is the fact that the law gives little guidance on how to make judgments about confidentiality, said Leonard Glantz, J.D., a professor of health law at Boston University School of Public Health.

Most court cases dealing with confidentiality involve psychiatric patients, he said, citing a case in which a psychiatrist was punished for failing to tell his patient's lover that the patient planned to kill her. By contrast, he added, few cases deal with patients affected by sexually transmitted diseases.

"The fact that there are very few cases tells us that the legal risk [of disclosure], at least for the medical profession, would not be very



*Participating in AIDS Awareness Day were students from BUSM, Harvard Medical School, Tufts University School of Medicine and the University of Massachusetts Medical School.*

must learn to be educators, teaching at-risk groups how to prevent AIDS. Those who do so, he went on, may find their audiences to be surprisingly receptive. "There are some very good data to indicate that you can change risk behaviors among intravenous drug users," said Craven, adding that many such users have stopped sharing unclean needles and begun using condoms after learning of the risks of shared needles and unprotected sex.

Craven and other speakers also told the students that educational efforts must be attuned to the realities of street life. Kattie Portis, M.A.,

tions, he suggested, dealing with AIDS is going to require action on issues other than the disease itself, including such basic problems as poverty and homelessness.

If some of the day's discussions yielded specific strategies for attacking AIDS, a panel on legal and ethical issues made it clear the disease often confronts physicians with anguishing dilemmas where there is no "right" answer.

Jennifer Daley, M.D., an instructor at Harvard Medical School and the panel's moderator, offered a series of case studies to illustrate the ethical ambiguities AIDS involves. One of

high," said Glantz. Physicians, though, still must decide what their ethical obligations are in such cases, he added.

The day's final panel featured students from the four participating medical schools. The speakers all said that whatever the dilemmas associated with AIDS, they plan to treat patients with the disease.

Andrea Williams, then nearing her graduation from BUSM, spoke movingly about her first encounter with a baby suffering from AIDS. It occurred during her pediatric rotation. The baby was very small, and also very beautiful, said Williams. When told the infant had AIDS, she went on, "for some reason, I froze, and I was really upset with myself."

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*The speakers all said that whatever the dilemmas associated with AIDS, they plan to treat patients with the disease.*

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Williams said that for several days thereafter, she watched others—nurses, the infant's aunt—handle the baby. "After a while, watching people interact, I was able to go up and play with the baby," she said, adding, "I really felt good about that."

Williams noted that she planned to practice in the inner city, and was looking forward to treating AIDS patients.

Another student, James McGarry of the University of Massachusetts School of Medicine, said he has become involved with community outreach efforts associated with AIDS, and urged his listeners to do the same. He noted that he had recently spoken to a group that included many IV drug users, and said that while he doesn't consider himself a natural speaker, "I gave the talk, and they really responded."

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*Richard P. Anthony is a freelance writer and a frequent contributor to Centerscope.*

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## Survey revealed the need for an awareness effort

The AIDS Awareness Day for Massachusetts medical students grew in part from a survey of AIDS attitudes and knowledge among first-year BUSM students.

The study, carried out in the fall of 1988, revealed that the students were knowledgeable about some aspects of AIDS but ill-informed about others, said Lee Strunin, Ph.D., an associate professor at Boston University School of Public Health and the study's principal author.

Strunin, who presented some of the study's results at the AIDS Awareness Day, said the students surveyed were generally aware of the major ways in which the disease is transmitted. For example, she said, most knew that anal intercourse is a major mode of transmission, and that vaginal intercourse is also important.

On the other hand, she said, 16 percent of the students erroneously believed that it is possible to contract AIDS by giving blood. That reflects similar misconceptions among the

public at large, said the researcher, noting that a random survey of Massachusetts residents in 1987 revealed that "about a third of adults believe that the virus is transmitted when donating blood." Other examples from the survey of the students' responses to how AIDS is transmitted include:

- **By sharing eating or drinking utensils with someone who has AIDS:**  
Yes—13% No—65%  
Don't Know—22%
- **Through saliva**  
Yes—30% No—43%  
Don't Know—27%
- **Through tears**  
Yes—20% No—48%  
Don't Know—32%
- **By a blood transfusion**  
Yes—95% No—5%  
Don't Know—0%

The survey also dealt with the students' views on such issues as physicians with AIDS and on testing for human immunodeficiency virus

(HIV), which causes the disease. "Half the students believed that hospitals should be able to test physicians, and one quarter favor requiring such tests," noted Strunin.

On the other hand, said the investigator, most students believe the issue of whether infected physicians should be barred from practicing depended on the circumstances. "A majority believe that a physician who had a positive antibody test should be allowed direct patient contact," she said, "but over half don't believe a physician with a positive HIV test should be allowed to do surgery."

The survey revealed that 43 percent of the students thought physicians should be permitted to avoid treating AIDS patients. One hopeful finding, said Strunin, is that the students who knew the most about AIDS were the least likely to favor giving physicians discretion about treating the disease.

# A Decade of Achievement

*SPH anniversary focus:  
Out of the classroom and into the challenges*

by Erica Saperstein

Over the past 10 years, students, alumni, and faculty of Boston University School of Public Health have taken their expertise beyond the classroom and into the public-health arena.

These SPH professionals have helped shape public policy for some of the most important and controversial public-health challenges of the past decade. Their contributions have put the School on the map as a leading academic factor in the field of public health.

Graduates, students, faculty and staff marked the School's many accomplishments at SPH's 10th Anniversary Celebration, held on May 20 to commemorate a decade of achievement in teaching, service and research.

The School's anniversary observances featured a day-long academic session followed by a dinner dance at Boston's World Trade Center. U.S. Rep. Barney Frank (D-Mass.) was the keynote speaker for the session.

## **Beginnings at BUSM**

"The growth of the School hasn't been an accident," said SPH director Norman Scotch, Ph.D., who introduced the academic session. "This School has always been oriented to its students, and we've been successful because we concentrate on being flexible and creative enough to meet their needs," he noted.

Apparently, this dedication has



*Norman Scotch, Ph.D.,  
program founder and director.*

paid off: Scotch announced that the School had just received full accreditation for the next seven years from the Council on Education for Public Health.

"We began with just 11 full-time faculty teaching 23 courses," Scotch noted. "We now have 45 faculty members and offer 117 courses. If you read the newspaper or turn on the news, chances are you've seen references to the School in the media. We're truly in the big league now."

The road to the 'big league' began in 1976, when the School of Medicine established a part-time evening program leading to the Master of Public Health degree. The program, the only one of its kind in the East, was designed for health-care professionals who wished to continue their educations without leaving their jobs.

The M.P.H. program was offered through BUSM's Socio-Medical Sciences and Community Medicine Department, then chaired by Scotch. In 1979, under Scotch's direction, the program evolved into a full-fledged graduate school. Today, the School has nearly 900 graduates and offers three doctoral degrees and four joint degrees with other graduate schools and programs in the University.

## **Meeting new and old challenges**

A recent survey of SPH faculty revealed that many of the public-health challenges of the late 1970s are still of concern today: the cost of health care, national health insurance, environmental pollution, patients' rights, alcohol and drug addiction and cardiovascular fitness.

New themes that have emerged include AIDS, genetic experimentation and long-term geriatric care. Working with public and private agencies at the local, state, national and international levels, the School has made significant contribution to many of these ongoing and current issues.

A case in point is the research of David Ozonoff, M.D., M.P.H., chief of the Environmental Health Section and a professor of public health (environmental health), and Ann Aschengrau, Sc.D., an assistant professor of public health.

The researchers, who were the first presenters of the May academic ses-



*With programs in various parts of the world, and students from numerous nations coming to the Boston campus, SPH offers international studies and exchange programs that few other schools can match.*

sion, discussed their two-year, \$500,000 study of elevated cancer rates on Upper Cape Cod. The funding was awarded to the School last year by the Massachusetts Department of Public Health.

The five-town Upper Cape section "will be one of the most studied areas in the country, ever," predicted Aschengrau, the principal investigator for the project. The researchers will study 1,200 cancer cases reported between 1982 and 1985, along with 1,500 controls from the same geographic area. The researchers are examining a variety of possible factors, including exposure to air and water pollution, radio waves, electromagnetic radiation, and such lifestyle factors as smoking and alcohol use.

Ozonoff has conducted a number of epidemiologic studies assessing the health risks of hazardous waste sites and has worked with many community groups on toxic-exposure issues. "We're hoping to make some kind of sense out of the area's high cancer rates and this very complicated environmental situation," he explained.

This kind of project "exemplifies the best of what this School can become," noted Scotch. "This research project was brilliantly conceived, and

is being carried out against tremendous odds."

When smoking was identified in the 1960s as a major public-health problem in this country, the odds against changing this behavior also seemed tremendous to many. "This is the quintessential public-health problem," noted Diana Chapman Walsh, Ph.D., a professor of public health (social and behavioral sciences). There is good news on this front, she explained: the prevalence of smoking declined from 40 percent of the population in 1965 to only 29 percent in 1987.

However, she added, the incidence of smoking now is higher among less educated sectors of the the population, and the percentage of women taking up smoking is declining more slowly than in men; in fact, women are starting to smoke at a younger age than before. "Taking up smoking is a personal choice, but there is more involved—the choice takes place in a social framework. Walsh discussed the role of social factors that may influence public-health problems like smoking. "This society has gone from viewing smoking as bad to seeing the smoker as bad," she noted.

### **Law and public health**

Some of the thorny public-health issues that have marked the decade since SPH's birth were cited by Leonard Glantz, J.D., SPH associate director and a professor of public health (health law).

Glantz pointed to the delicate balance between current, often controversial public-health issues—including abortion, mandatory drug testing, clean syringe distribution and AIDS—and legal issues involving confidentiality and privacy.

"The law is the enforcement arm in public health," he commented. "Law acts as a negotiator—it's an equalizing force between less powerful and more powerful groups in this society." The disparity between the weaker and more powerful groups is illustrated in the debate surrounding access to affordable health care.

"It's a disgrace that this country is one of the last in the Western world to guarantee health care to all of its citizens," said Robert Master, M.D., chief of the Health Services Section and former medical director of the Medicaid Division of the Department of Public Welfare.

Master's section is working on universal health-care entitlement in Massachusetts, a premise that is "teetering on the brink of that

promise being blown apart," he noted. The Section also is working in the area of long-term care.

A fast-growing frail-elderly population in need of an array of health-care services is "a crisis that is current and looming in Massachusetts, amplified by the Commonwealth's labor crisis," Master explained.

He noted that inner-city nursing homes, dependent on Medicaid, have been particularly hard-hit in recent years. One such example is Resthaven Nursing Home, a 240-bed facility that has been beset by numerous financial and labor difficulties.

A team of SPH alumni and faculty is now involved, along with the University Hospital, in managing Resthaven, the largest long-term-care facility in Boston. Under the direction of this team, Resthaven received recertification only nine months after SPH's involvement began. According to Master, this is the first time a long-term-care facility has been recertified in fewer than 18 months. Master said he hopes facilities like Resthaven will become laboratories for innovation not only for clinical approaches to care, but also for new approaches to reimbursement, staffing and regulation.

Following Master's presentation, Sarah Degnan of the School's Office of Special Projects discussed OSP's international programs. OSP offers three intensive courses of particular interest to students who are from developing countries or who intend to work in international health.

The Office of Special Projects also manages selected overseas and domestic research and service activities. According to Degnan, students representing more than 50 countries have enrolled in OSP programs, and the Office has trained more than 300 individuals since 1983.

### A sampling of accomplishments

The May 20 academic session, explained Scotch, provided "just a sampling of what the School has accomplished in 10 years." Other faculty members and their recent accomplishments include:

**Hortensia Amaro, Ph.D.**, an assistant professor of public health (social and behavioral sciences) and an assistant professor of pediatrics at BUSM, has been involved in developing strategies to deal with the AIDS epidemic in the Latino community. A recent study by Amaro and SPH colleagues found that Latinos in Massachusetts are less knowledgeable about HIV infection than other groups.

**George Annas, J.D., M.P.H.**, chief of the Health Law Section and the Edward R. Utley Professor of Health Law, last year published *Judging Medicine*, a collection of his essays on legal and ethical aspects of patients' rights and other medical issues. Annas, a nationally respected medical ethicist, is the Health Law Column editor for the *American Journal of Public Health* and writes a regular column for the *Hastings Center Report*, a bimonthly journal of contemporary ethics.

**John Groopman, Ph.D.**, an associate professor of public health (environmental health), has developed monitoring procedures for human exposure to aflatoxin, a highly carcinogenic and toxic product of mold-related food spoilage that has been linked to liver cancer and has been known to suppress the body's immune system.

**Ralph Hingson, Sc.D.**, chief of the Social and Behavioral Sciences Section, is involved in several studies involving drinking and driving. He also is looking at states that have raised their speed limits, to determine what effect this measure has had on the number of fatal automobile accidents.

**Allan Meyers, Ph.D.**, an associate professor of public health (health services) has conducted a demonstration of managed care as a viable medical-care alternative for the disabled.

**Anthony Robbins, M.D.**, a professor of public health (environmental health), a former Commissioner of Public Health in Vermont and Colorado, has conducted research on developing vaccines for the Third World.

**Alan Sager, Ph.D.**, an associate professor of public health (health services), has monitored the implementation of the Commonwealth's health-care bill. He also has analyzed the issue of a physician shortage in Massachusetts.

**Samuel Shapiro, M.B.B.Ch.**, director of the School's Slone Epidemiology Unit and a research professor of socio-medical sciences and community medicine, and public health (epidemiology and biostatistics), and other researchers from the Unit recently conducted a study suggesting that women under the age of 45 who use oral contraceptives may be at increased risk for breast cancer.

**Lee Strunin, Ph.D.**, an assistant professor of public health (social and behavioral sciences) conducted the first state-wide survey of adolescents' knowledge, attitudes, beliefs and behaviors regarding AIDS. She presented her findings at the 1988 International AIDS Conference in Stockholm.

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*Erica Saperstein, a frequent contributor to Medical Center publications, lives in Brookline, Mass.*

# Alumni Fund Report

## Executive Director's report: 'Another excellent year' for the Association

### Dear Alumni and Friends:

1988-89 was another excellent year for the Alumni Association. Louis W. Sullivan '58, a past recipient of the University's Distinguished Alumnus Award, was sworn in March 10 as Secretary of the U.S. Department of Health and Human Services. At its Annual Meeting and Banquet on May 13, the Alumni Association conferred the Distinguished Alumnus Award on Ralph D. Feigin '62, David G. Poplack '70 and Lawrence A. Yannuzzi '64. Our BUSM seniors again experienced excellent residency placement at some of the most prestigious training programs in the U.S.

The traditional events and activities supported by the Alumni Association included: The Reception and Dinner for Entering Students; the Matching Day

Party; the Skit Nite Awards Ceremony and Party; Alumni Weekend and Reunions with graduating seniors and dates invited to the Banquet as guests of the Alumni Association; and the annual Dean's Club Dinner for annual donors of \$1,000 or more.

This was also another record-breaking year in fund raising, as you will learn from Barney Tolnick's Annual Fund Report below. The Alumni Association continued its strong support of the Student Revolving Loan Fund, the Alumni Medical Library and student activities.

One of the goals announced by our new Dean, Dr. Aram Chobanian, is a moderation in tuition increases. He has initiated this policy by freezing 1989-90 tuition at the 1988-89 level of \$22,300. This will necessitate additional budgetary



Barry M. Manuel '58, chairman of the Dean's Club, chats with Sanford W. Udis '44.

restraint, but clearly the financial burden on our medical students has to be eased.

In these challenging times, the School must rely more heavily than ever on the support provided by the Alumni Association's Annual Fund. We thank you for your past generosity, and look forward to your continued involvement.

**Barry M. Manuel, M.D. '58**  
Executive Director  
BUSM Alumni Association

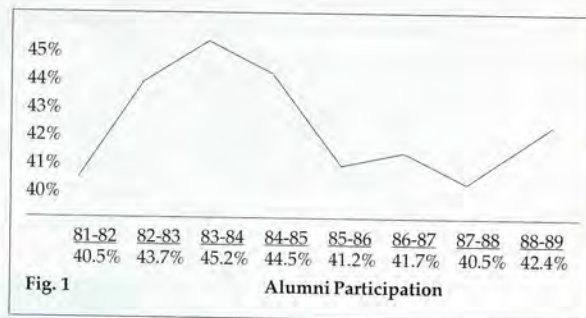
## Contributions up by 12.3% over last year; participation among alumni on the rise again

### Dear Friends and Colleagues:

It gives me great pleasure to announce the results of our 1988-89 Annual Fund campaign. A total of \$763,459 was contributed this year by members and friends of our Alumni Association. This represents an increase of 12.3% over the 1987-88 Annual Fund, which raised \$680,148.

Even more heartening than the dollar increase is the increase in alumni par-

ticipation. After peaking at 45.2% in 1983-84, our percentage of participation had declined gradually to 40.5% in 1987-88. As I alerted you last year, this trend has been occurring nationwide in private medical schools as graduates struggle with larger debt. Therefore, we are delighted to report that our alumni participation is back up



to 42.4% this year (see Fig. above). We hope that with continued personal outreach to our younger alumni, we can sustain or improve this percentage. To the 1,863 alumni who contributed in 1988-89, we are deeply grateful.

Enrollment in every Special Gift Club increased this year (see Fig. next page). We are pleased to recognize Club members in the lists that follow, and extend special appreciation to these leaders for their substantial support.

Some of the five-year reunion classes had special campaigns this year, and I want to commend their efforts. The Class of 1939 led the way by contributing a 50th Reunion gift of \$35,929, more than any other class. The Class of 1964 con-

Pictured at the Dean's Club dinner are, left to right, Bernard Tolnick '43-A, Nathan Buchman, Jean Buchman and Rita Tolnick.



**BUSM Alumni Association Annual Fund**

	1987-88	1988-89
Amount Contributed	\$680,148	\$763,459
Alumni Donors	1,732	1,863
Alumni Participation	40.5%	42.4%
<b>Special Gift Clubs</b>		
Dean's Club Members (Donors of \$1,000+)	191	199
Anniversary Club Members (Donors of \$500-\$999)	64	84
Patrons of the Century Club (Donors of \$250-\$499)	178	189
Century Club Members (Donors of \$100-\$249)	794	875

Fig. 2

tributed a 25th Reunion gift of \$17,880, with 63.3% participation.

To the Class Gift Chairmen and Phonathon volunteers who contributed time and hard work, our deepest appreciation. I especially want to thank Executive Director Barry Manuel and Phonathon Chairman Peter Pochi for their leadership and tireless efforts.

In the coming year, we must sustain the growth in our Annual Fund in order to help offset the increasing costs of private medical education.

Thanks again to all of you who have demonstrated your support of our School and its work.

**Bernard Tolnick, M.D. '43-A  
Chairman  
Annual Fund Committee**

## Message from the Dean: Support of the Association has been invaluable

### Dear Alumni:

Your outstanding support has been one of the highlights of my first full year as Dean. It comes at a time of major financial needs of the School caused by budgetary cutbacks for medicine from federal, state, and private sources. The increase in the cost of medical education has placed serious burdens on our medical students, and the average debt load of our 1989 graduating class is in excess of \$72,000. Our student revolving loan fund has helped meet some of these needs at relatively low interest costs, but unfortunately, large amounts of high interest loans have also been required. To help control the cost of medical education, we have decided to keep the 1989-90 year tuition at the same level as in 1988-89 and will attempt to limit increases in future years to manageable amounts. Such action will require increased efforts to raise funds from other sources, but unless medical education costs can be contained, there is serious danger in the future of restricting medical education to the wealthy.

Despite these financial problems during the past year, the School of Medicine has been able to build on its tradition of excellence. As examples, the School was reaccredited by the Liaison Committee on Medical Educa-

tion for a full seven-year term and was complimented highly on its programs. New research facilities at 801 Albany Street were completed and occupied, and planning for a new Boston City Hospital and a new research building are well under way. Plans are also progressing well for a revision of the medical school curriculum with anticipation of major changes to be introduced in the 1990-1992 period. The research programs have continued to grow, and the School of Medicine ranks within the top five nationally with respect to the amount of research support obtained by each faculty member. An endowed chair in Dermatology was established this year, honoring the late Herbert Mescon '42, who led the department for over three decades. The Cardiovascular Institute was named after Uncas and Helen Whitaker, long-time supporters of the Institute. We therefore have done relatively well, even under difficult circumstances.

I am most appreciative of your support and look forward to working with you to improve even further the level of excellence at the School.

**Dean Aram Chobanian**



*Dean Aram Chobanian chats with members of the Dean's Club during reception and dinner held at the Ritz-Carlton.*

**Special Gift Clubs:  
Recognition for those who support  
the '88-89 Annual Fund**

Recognition of those who have made a leadership commitment to the 1988-89 Annual Fund is given through membership in one of the Special Gift Clubs: Dean's Club—Lifetime Membership (\$10,000 or more), Dean's Council (\$2,500 or more), Membership (\$1,000 or more); Anniversary Club (\$500-999); or Century Club—Patron (\$250-499) or Member (\$100-249).

(This issue of *Centerscope* lists contributors to the 1988-89 Annual Fund as of July 31, 1989.)



*Among those attending the Dean's Club Dinner were Dr. and Mrs. Joseph J. Vitale and their daughter, Laura Vitale '89.*

**Dean's Club**

- \* Edward A. Abbot '35
- Louis J. Aiello '35
- Dwight M. Akers '53
- # Michael J. Albom '70
- Robert G. Alexander '74
- \* Anonymous
- \*+Anonymous
- Roberta J. Apfel '62
- Philip J. Arena '61
- Jeanne F. Arnold '61
- \* Marvin B. Bacaner '53
- Ronald F. Backer '70
- Merwyn Bagan '62
- Thomas C. Bagnoli '64
- David A. Bailen '67
- William H. Baker '46
- Betty J. Bamforth '47
- Howard C. Beane '57
- John H. Bechtel '50
- Wallace W. Bednarz '52
- John Belsky '34
- Folkert O. Belzer '58
- Arnold L. Berenberg '46
- \* Eliot L. Berson
- \* Frank G. Berson
- \*+ H. Arthur Berson '31
- David W. Bishop '46
- Michael A. Bleicher '66
- \*+ Harris E. Bowmar '25
- Robert B. Brown '63
- Robert H. Brown '65
- Robert J. Carey '54
- Ann C. Cea '67
- Elsa K. Chaffee-Bodon '41
- \* Loammie Churney
- Alan S. Cohen '52
- Charles G. Colburn '45
- # William R. Cranley '68
- \* Nicholas E. Creaturo '31
- Andrew B. Crummy '55
- # Timothy L. Curran '39
- Peter J. Deckers '66
- Bruce Derbyshire '54
- Alvin N. Eden '52
- Richard H. Eg Dahl
- Marion Wier Elliott '55

- Mary Jane England '64
- # Jacob Felderman '35
- I. Howard Fine '66
- \* Nathan L. Fineberg '30
- Edward W. Forbes '69
- Frederick L. Fox '68
- William Franklin '46
- \* Fred P. Freed
- Murray M. Freed '52
- # Sumner Lester Freeman '55
- \* Mr. and Mrs. Marcus S. Friedlander
- Alphonse L. Gallitano '61
- Ralph G. Ganick '67
- George Edward Garcia '61
- \* George E. Ghareeb '62
- Robert L. Gise '75
- + Marian Wright Godbey '36
- Arnold Goldenberg '54
- Philip T. Goldenberg '46
- # Gene Gordon '46
- # Malcolm Gordon '48
- Jon A. Green '72
- Robert J. Griffin '48
- Gene A. Grindlinger '70
- Michihiko Hayashida '53
- \*+ John J. Hayes '32
- Paul J.M. Healey '58
- Lester K. Henderson Jr. '69
- George L. Hines '69
- Michael G. Hirsh '63
- \* Bernard L. Huang '62
- Richard E. Hunter '44
- Harry M. Iannotti '66
- \*+ Cyril Israel '26
- Peter F. Jeffries '60
- Israel M. Kamens '35
- Warren Kantrowitz '60
- Donald S. Kaufman '60
- Leo T. Kelly '58
- John J. Kennedy Jr. '46

- James F. Kenney '45
- Paul J. Killoran '54
- \* Mohandas M. Kini
- Edward S. Kondi '62
- Phyllis Koteen '42
- Samuel J. Kowal '36
- Mary Kraft '75
- David H. Kramer '60
- \* Edward E. Krukonis '63
- John M. Kurkjian '58
- \* Robert C. Lawlor '55
- Paul M. Leiman '74
- Irma M. Lessell '77
- Olga A.G. Little '35
- Jon C. Lochner '69
- Stephen R. LoVerme '46
- Bruce W. Lowney '68
- Edward W. Luka '58
- Melvin K. Lyons '43-B
- William Elmar MacDonald '36
- # Richard J. Mackool '68
- Thomas A. MacLean '64
- Joseph E. Magaro '61
- William I. Malamud Jr. '54
- Christopher Mamonas '39
- Julian Mandell '48
- Barry M. Manuel '58
- Ethel Brown Margolis '63
- A.V. Mariano '59
- \* Rocco S. Marino '42
- Robert S. Marnoy '54
- \*+ John S. Martin '25
- Francis C. Mason '54
- Joseph M. Matthews '75
- William L. McCarthy '54
- John R. McCormick '65
- Robert F. Meenan '72
- \*+ Mabel Messinger
- Steven Abbott Miller '70

- Clifford K. Mirikitani '44
- Frank J. Miselis '45
- Charles J. Monestere '34
- Clifton F. Mountain '54
- Peter J. Mozden '53
- Jerry Murphy '79
- Carolann Najarian '80
- Chuk Nwokedi '56
- John F. O'Connor '57
- \* Bertha Offenbach-Fineberg '36
- Vincent S. O'Hara '57
- # Carl A. Olsson '63
- Helen A. Papaioanou '53
- Simon C. Parisier '61
- \* Vincent J. Patalano '53
- J. Scott Pennepacker '45
- \* P. Anthony Penta '51
- Harry L. Pine '57
- # Peter E. Pochi '55
- # M. Douglass Poirier '76
- James J. Pollard '59
- Anthony V. Porcelli '55
- Helen Curtis Provost '35
- Pierre E. Provost IV '64
- \*+ Janice Rafuse '25
- \* Hilda Ratner '34
- #+ Solomon P. Ratner
- David Rothbaum '82
- Harilaos T. Sakellarides
- Louis M. Sales '35
- Marjorie B. Sanders '68
- John I. Sandson
- Peter L. Sapienza '43-A
- Francis P. Saunders '58
- David E. Savar '73
- Alan L. Schechter '78
- Harold S. Schell '70
- Rolf G. Scherman '56
- Robert M. Seymour '64
- Steven P. Shearing '64
- # Richard J. Shemin '74
- H. Roy Silvers '69
- Paul J. Simel '55
- James J. Siragusa Jr. '49
- \*+ John J. Slattery '29
- \*+ Frances Hayward Smith '43-A

- Louis Sorrentino '47
- Edward L. Spatz
- Herbert L. Sperling '52
- Edward Spindell '53
- Norman S. Stearns '47
- \* Clement A. Stone
- George E. Sullivan '36
- Eleanor L. Swartz
- Toshihisa Takei '62
- Charles E. Taylor '64
- Bernard Tolnick '43-A
- \* Frank Toppo '80
- # Sanford W. Udis '44
- Laura Vitale '89
- Jerome D. Wayne '58
- \* Arthur B. Wein '39
- Alan D. Weiner '52
- Murray Weinstock '65
- Roland P. Wilder '36
- Victor T. Williams '66
- Jane A. Winchester '63
- \* Arnold Wong '59
- Kinsman E. Wright Jr. '64
- Lawrence A. Yannuzzi '64
- Lily Moo Young '65
- Richard L. Zizza '79
- Leonard J. Zwerling '69

\* Lifetime  
# Dean's Council  
+ Deceased



Pictured at the Dean's Club Dinner were, left to right, Murray M. Freed '52, Alan D. Weiner '52 and Philip J. Arena '61.

**Anniversary Club**

- Winston D. Alt '80
- Barry R. Alter '71
- Edward P. Andersen '64
- Philip J. Andrews '61
- Rosalie Meissner Auster '65
- Madeline Bachta '71
- Arthur Barnes '55
- A. Robert Bellows '63
- Franklyn D. Berry '41
- S. Arthur Boruchoff '51
- Leonard Bouras '59
- George K. Boyd '55
- Thomas F. Boyd '48
- Ernest A. Bragg Jr. '43-B
- Stanley K. Brockman '55
- James R. Brown '64
- Peter N. Carbonara '57
- Richard J. Cea '63
- Yi-Chuan Ching '58
- Sidney Cohn '39
- Robert L. Conrad '60
- Eugene M. DiGiovanni '73
- Seymour DiMare '52
- Robert R. Ditkoff '73
- Joseph F. Di Troia '64
- Elizabeth C. Dooling '65
- Saul K. Dopkeen '39
- Frederick G. Doran '55
- Donald S. Dworken '55
- Charles F. Eades '60
- Kenneth Farbman '64
- Stuart R. Ferguson '79
- Marshall P. Field '62
- Arthur P. Fisch '69
- Nicholas J. Fiumara '39
- Jane L. Forrest '71
- Walter E. Fox '55
- Jay A. Goldstein '72

- Mark N. Goldstein '74
- Leonard A. Greene '60
- David B. Hartmann '70
- Elliot P. Hastings '60
- Victor I. Hochberg '63
- Armen S. Kasparian '70
- Kenneth B. Kassler-Taub '80
- John P. Katzenberg '81
- Brenda M. Kelly '64
- Thornton C. Kline Jr. '64
- Celeste M. Krauss '79
- Homan E. Leech '36
- Paul A. Levine '68
- George I. Litman '64
- Charles Mahanor Jr. '54
- Luigi Mastroianni Jr. '50
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- James B. McQuillen '60
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 Jerome Nadelhaft '49  
 Doris B. Nagel '64  
 Willard D. Nalchajian '35  
 John Neal '46  
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 Roy W. Nelson '38  
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 Michael S. Niederman '77  
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 Joseph P. Ornato '71

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 Ames Robey '56  
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 Joseph P. Rogan '75  
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 Richard F. Rose '73  
 Michael T. Rosenbaum '78  
 James W. Rosenberg '68  
 Calvin C. Ross '68  
 Elliott D. Ross '68  
 Alan L. Rothman '83  
 Carol A. Rothman '66  
 Harold F. Rowley '31  
 Donald S. Ruffett '72  
 Hubert A. Russell '76  
 Selma Hyde Rutenburg '49  
 N. Thomas Ryan '80  
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 Ronald A. Schwartz '60  
 Steven B. Schwartz '77  
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 Patricia Scola '61  
 Mario J. Sculco '60  
 Joseph F. Seber '78  
 Michael Seidman '74  
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 George Herbert Semel '63  
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 Joseph R. Sgarlat '43-B  
 Charles J. Shagoury '43-B  
 Jeffrey A. Shane '68  
 Mark J. Shankman '80  
 Bruce K. Shapiro '72  
 Leon N. Shapiro '48  
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 Thomas E. Shea '60  
 A. Craig Shealy '58  
 Thomas J. Sheehy Jr. '44  
 Richard L. Shelling '56  
 Edward J. Sherwood '75  
 Arthur D. Schiff '67  
 Robert C. Shoemaker '49  
 David S. Shulman '83  
 Harold I. Shuman '35  
 Paul W. Siegel '76  
 Allan W. Silberman '75  
 Jason G. Silverman '60  
 Toby Ann Silverman '77  
 John R. Simmons '50  
 Richard L. Simmons '59  
 Elisabeth B. Simms '72  
 Geoffrey Simon '68  
 Kenneth B. Simons '80  
 Mike B. Siroky '70  
 James L. Skydell '78  
 David Lewis Smith '46  
 Lee E. Smith '78  
 William E. Smith '65  
 Arnold J. Smoller '56  
 John S. Snider '39  
 Rebecca E. Snider '84  
 Monica H. Snyder '33  
 Robert A. Snyder '77  
 Edna H. Sobel '43-B  
 Paul Solomon '54  
 Norman M. Sorgen '73  
 Sydney M. Sorrel '45  
 Webster F. Soule '53  
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 Murray Waksman '64  
 George Walcott '62  
 Gail Waldron '63  
 Dale C. Walker '76  
 Michael D. Walker '60  
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 George C. Wang '56  
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 Jeremiah O. Young '62  
 Setrag A. Zacarian '47  
 Thomas J. Zaccaro '62  
 C.W. Zarnoch '73  
 Mitchell R. Zavon '49  
 John D. Zelem '76  
 Donald J. Zeller '70  
 Richard D. Zonis '58  
 Frank J. Zsoldos '39

Alumni contributors listed by class

- 1921**  
 + Fairy P. Brown
- 1922**  
 Jacob M. Masters
- 1924**  
 \$200 donated  
 2 donors  
 50.0% participation
- Herman Selinsky  
 Franklin L. Wilbur
- 1925**  
 4 donors  
 51.1% participation
- + Harris E. Bowmar  
 + John S. Martin  
 + Elinor R. Martin  
 + Janice Rafuse
- 1926**  
 + Cyril Israel
- 1927**  
 \$625 donated  
 3 donors  
 33.3% participation
- Grace Blauvelt-Welles  
 L.B. Slysz  
 Irving H. Uvitsky
- 1928**  
 \$450 donated  
 3 donors  
 27.3% participation
- Hector A. Bladuell  
 Morris Katcher  
 Irving M. Swartz

Donors to the Annual Fund

<b>1929</b> \$300 donated 3 donors 37.5% participation	Samuel C. Cohen Andrew D. Elia Jacob Felderman Burton C. Grodberg Bernard M. Halbstein Israel M. Kamens Olga A.G. Little Willard D. Nalchajian Leon G. Payes Helen Curtis Provost Louis M. Sales Charles Saltzman Arthur B. Serino Harold I. Shuman Gerard A. Vetromile	50.0% participation	Charles C. Thompson Harold M. Wolman K.G. Yankopolus	Saul Malkiel Clifford K. Mirikitani Franklin A. Munsey Otto C. Page Nicholas T. Phillips Clinton C. Powell Thomas J. Sheehy Jr. Seda Aronian Sparling Sanford W. Udis
Harry Freedberg Albert V. Saradarian + John J. Slattery		Sidney Cohn Timothy L. Curran Saul K. Dopkeen Nicholas J. Fiumara Christopher Mamonas Harold Marcus Walter S. Mozden Arthur G. Simoneau John S. Snider + Richard C. Taylor Adrien G. Tetreault Arthur B. Wein Nathan Williams Frank J. Zsoldos	<b>1943-A</b> \$4,640 donated 23 donors 71.9% participation	<b>1945</b> \$5,590 donated 26 donors 50.0% participation
<b>1930</b> \$5,533.75 donated 5 donors 38.5% participation	H. Archer Berman Margaret Blair Nathan L. Fineberg Thor Miller Louis Pillioni	+ Fred A. Anderson Ruth Messer Anderson William Berenberg Abraham I. Binder Robert E. Block Joseph F. Carlucci William P. Colpoys Jr. Irving I. Goodof Najeeb Klam Bernard F. Mann Jr. Howard H. Milliken Isabel S. Money Joseph F. Palmieri Iver S. Ravin Louis A. Rottenberg Pauline G. Spear Eugene Suzedell Margaret Vencko William C. Wildberger	Jean C. Avery John T. Barrett M. Leroy Barry Marion Macdonald Castagno Matthew C. Darnell Jr. Saul C. Holtzman David K. Lovely George I. Lythcott Edward H. Malone Mahlon R. Mason Joseph Panio Peter L. Sapienza + Kenneth H. Seagrave Lloyd I. Sexton + Frances Hayward Smith Philip S. Spence Elliott H. Sweetser R. Emerson Sylvester Bernard Tolnick Henry M. Trask Louis Weinstein Daniel M. Weiss Julius Wolf	Joseph Alpert Fred W. Benton Mortimer J. Blumenthal Robert D. Boynton Lee Britton Edward F. Caruso Charles G. Colburn John A. Ferris Leon M. Golub Shozo Iba James F. Kenney Forrest N. Maddix Jr. J. Neil Medefind Frank J. Miselis George H. Nip Robert J. Orme Leon M. Osachuk J. Scott Pennepacker Howard J. Potter Marjorie E. Readdy- Sullivan Melvin H. Rodman Sydney M. Sorrel Donald W.S. Stiff Edward F. Vander Bush Charles W. Woodcock John E. Yelle
<b>1931</b> \$13,368.29 donated 8 donors 72.7% participation	+ Marian Wright Godbey James V. Halloran Edward R. Janjigian Samuel J. Kowal Homan E. Leech William Elmar MacDonald John Meyers Bertha Offenbach- Fineberg Ernest J. Pastorello Priscilla Sellman George E. Sullivan William W. Wainer Roland P. Wilder	<b>1941</b> \$1,975 donated 6 donors 28.6% participation	<b>1943-B</b> \$3,850 donated 20 donors 55.6% participation	Melvin H. Rodman Sydney M. Sorrel Donald W.S. Stiff Edward F. Vander Bush Charles W. Woodcock John E. Yelle
Taft A. Antoun Leonard W. Benedetto + H. Arthur Berson Nicholas S. Cea Nicholas E. Creaturo Joseph Factor Anthony A. Iavazzo Harold F. Rowley	<b>1932</b> \$200 donated 3 donors 27.3% participation	<b>1942</b> \$3,210 donated 19 donors 57.6% participation	John C. Ayres Helen Belding-Meads Frances J. Bonner Ernest A. Bragg Jr. Elmer L. Crehan Jacob B. Dana William E.R. Greer Melvyn Johnson Melvin K. Lyons Robert G. MacBride J. Jay Matloff Melvin Newman Paul I. Ossen Gary P. Paparo Robert C. Rainie S. Albert Sarkisian Joseph R. Sgarlat Charles J. Shagoury Edna H. Sobel H. Tom Tamaki	<b>1946</b> \$11,250 donated 21 donors 41.2% participation
+ Charles P. Earley John J. Hayes Philip E. Sartwell	<b>1933</b> \$400 donated 3 donors 33.3% participation	Franklyn D. Berry Elsa K. Chaffee-Bodon Harold I. Miller Francesca Racioppi Harold P. Stetson Philip B. Thomas	<b>1944</b> \$6,487.38 donated 19 donors 52.8% participation	William H. Baker Arnold L. Berenberg David W. Bishop John T. Bowers Jr. William Franklin Philip T. Goldenberg Gene Gordon Francis S. Jones Robert A. Joy John J. Kennedy Jr. Sidney Kibrick Walter G. Leonard Stephen R. LoVerme Douglas N. MacInnis John Neal William B. Ober John Sarokhan William A. Sinton David Lewis Smith Anthony D. Vamvas Jr. Donald Norman Vivian
+ H. Arthur Berson Nicholas S. Cea Nicholas E. Creaturo Joseph Factor Anthony A. Iavazzo Harold F. Rowley	<b>1937</b> \$1,475 donated 11 donors 45.8% participation	Vincent Baptist John R. Barr Herbert N. Blanchard Martin L. Bradford Oliver H. Durand Abraham G. Glenn Jacob Gottler Elizabeth A. Gregory Brooks H. Hurd Harold Karlin Abraham Kaye Phyllis Koteen J. Howard Lightfoot Rocco S. Marino Francis J. McMahon O. Arthur Nereo	Albert B. Accetola Salvatore V. Bonanno Charles D. Bonner Charles M. Bonzey Jr. Lawrence N. D'Elia Jr. Alfred A. Figliozzi Job E. Fuchs Richard E. Hunter Sumner Kaufman Arthur B. Kern	<b>1947</b> \$5,155.62 donated 20 donors 44.4% participation
+ H. Arthur Berson Nicholas S. Cea Nicholas E. Creaturo Joseph Factor Anthony A. Iavazzo Harold F. Rowley	<b>1938</b> \$1,100 donated 12 donors 50.0% participation			
+ Charles P. Earley John J. Hayes Philip E. Sartwell	<b>1939</b> \$35,929.38 donated 14 donors			
+ H. Arthur Berson Nicholas S. Cea Nicholas E. Creaturo Joseph Factor Anthony A. Iavazzo Harold F. Rowley				
Edward A. Abbot Louis J. Aiello Leo E. Baron Constance G.H. Cincotti				

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Harold L. Osher  
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Raymond Seltser  
Richard C. Smith  
Louis Sorrentino  
Norman S. Stearns  
Donald O. Ward  
Setrag A. Zacarian

**1948**  
\$7,375 donated  
23 donors  
47.9% participation

Neil E. Anderson  
Robert W. Bell  
Thomas F. Boyd  
George C. Branche Jr.  
Henry F. Burke  
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Robert T. Cooney  
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Arthur C. O'Brien  
Helen O'Brien-Cullina  
Ralph J. Palermo  
Leon N. Shapiro  
Paul B. Sullivan  
Frederick N. Talmers  
Bernard A. Woods

**1949**  
\$2,671.75 donated  
18 donors  
40.9% participation

Albert A. Apschaga  
Sylvan B. Baer  
June Jackson Christmas  
Michael J. Esposito  
Joseph H. Feldman  
Mitchell E. Kfoury  
Lillian A. Luksis  
Robert W. McLean  
Jerome Nadelhaft  
Albert J. Plummer  
Anna Cort Radovsky  
Selma Hyde Rutenburg  
Robert C. Shoemaker  
Anna Silverman-Boruchoff  
James J. Siragusa Jr.  
Maurice Vanderpol  
Ralph E. Williams  
Mitchell R. Zavon

**1950**  
\$4,170 donated  
28 donors  
56.0% participation

Ralph C. Andrews  
G. Robert Baler  
John H. Bechtel  
Irving H. Berkovitz  
Nadya Konikov Bleisch  
Ralph O. Brown  
Donald T. Devine  
Donald P. Dobson  
Alice M. Fleming  
Joseph Franklin  
Bernard Goldberg  
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George H. Mills  
Alan D. Mitchell  
Michael Rohman  
Max G. Sherer  
John R. Simmons  
George J. Talis  
Dorothy Tucker-Mitchell  
Wesley G. Woll Jr.

**1951**  
\$3,823.50 donated  
26 donors  
57.8% participation

Edward R. Asregadoo  
David H. Baker  
David Blau  
S. Arthur Boruchoff  
John A. Callahan  
Richard Blair Chapman  
A.B. Clachko  
Robert H. Cowing  
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Bennett Miller  
Noboru Ogami  
P. Anthony Penta  
Douglass S. Thompson  
Guy N. Turcotte  
Percy W. Wadman  
Brooks S. White  
William C. Wiswall

**1952**  
\$9,150 donated  
25 donors  
41.0% participation  
Arnold L. Abrams

Robert W. Bain  
Julius J. Bartoli  
Wallace W. Bednarz  
Philip B. Burke  
Leonard A. Charpentier  
Alan S. Cohen  
Stephen W. Czarnecki  
Seymour DiMare  
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Frank L. Pettinga  
Timothy J. Regan  
Charles J. Schissel  
Herbert L. Sperling  
Joseph Steg  
H. Leon Taylor  
Gerald Terris  
Alan D. Weiner  
Eugene P. Whittier Jr.

**1953**  
\$8,808.58 donated  
40 donors  
67.0% participation

Dwight M. Akers  
Marvin B. Bacaner  
Arnold J. Bajek  
Camille R. Berube  
Harold P. Blum  
Matthew D. Branche  
Gerald S. Brickman  
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Abe Kaplan  
Oskar Klausenstock  
Alfredas Krisiukenas  
Hamer Lacey  
Thomas Leavitt Jr.  
Thomas C. Lee  
Henry C. Lincoln  
Zenos M. Linnell  
Ernest W. Lowe  
Frank I. Marcus  
Peter J. Mozden  
Carlos Munoz-Mellowes  
Radamee Orlandi-Gomez  
Helen A. Papaioanou  
Vincent J. Patalano  
Edward Spindell  
Carl B. Tisch  
Martin L. Vogel  
Norman Weinstein  
Henry O. White

**1954**  
\$12,189 donated  
32 donors  
51.6% participation

Walter E. Ahrens  
Blanche K. Baler  
Robert M. Berk  
Robert B. Bross  
Duncan W. Campbell  
Robert J. Carey  
Jay D. Coffman  
William L. Curwen  
Bruce Derbyshire  
George Dermksian  
Robert W. Egan  
Herbert L. Everett  
Beverly A. Foss  
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Paul J. Killoran  
Paul M. Lerner  
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William I. Malamud Jr.  
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Clifton F. Mountain  
John F. Murtaugh  
Frederick J. O'Brien  
Jane Price Prager  
E. Arthur Robinson  
William T. Seales  
Paul Solomon  
Charles L. Ward Jr.

**1955**  
\$16,375 donated  
44 donors  
60.3% participation

Stephen J. Alphas  
William Y.W. Au  
Arthur Barnes  
George K. Boyd  
John Paul Brady  
Stanley K. Brockman  
Bradford R. Brown  
Saverio Caputi Jr.  
Andrew B. Crummy  
Robert T. Cutting  
Frederick G. Doran  
Donald S. Dworken  
James E. Edwards  
Marion Wier Elliott  
Walter E. Fox  
Sumner Lester Freeman  
Barbara T. Ganem  
W. Scott Garland  
Gerald E. Gaull  
George A. Glines  
Waclaw Hojnoski Jr.  
William F. Howatt  
S. Allan Hurvitz  
Andrew Huvos  
Manuel Ingall  
James P. Johnson  
Paul Kaufman  
Jeanne D. Keller  
Donald C. LaBrecque  
Clement E. LaCoste

Robert C. Lawlor  
John B. Little  
William P. Luke  
Hugh Miller  
Joseph T. Mullen  
Stanley H. Nordmo  
Peter E. Pochi  
Anthony V. Porcelli  
Jordan S. Ruboy  
Paul J. Simel  
William Thomas Jr.  
Augustine S. Weekley  
Elizabeth Wham Ziskin  
Hilbert Ziskin

**1956**  
\$6,900 donated  
32 donors  
48.5% participation

Modhaffer K.  
Al-Chokhachy  
George E. Battit  
Allen G. Brailey Jr.  
Donald C. Brody  
James E. Burris  
Richard A. Cain  
Richard O. Elliott  
Richard D. Frary  
Charles J. Gerry  
Cameron B. Gundersen  
James D. Kenney  
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Robert H. Lofgren  
Albert H. Marcus  
Morton B. Newman  
Chuk Nwokedi  
Alan L. Pinkerson  
Artemis S. Pinkerson  
Anthony J. Piro  
Jerome R. Pomeranz  
Daniel Powers  
Harold G. Reiss  
Ames Robey  
Rolf G. Scherman  
Richard L. Shelling  
Melvin R. Shevach  
Arnold J. Smoller  
Alfred I. Spieler  
Melvin Stahl  
George C. Wang  
Carl S. Werner

**1957**  
\$8,786.74 donated  
35 donors  
54.7% participation

Howard C. Beane  
Peter N. Carbonara  
John C. Coniaris  
Maurice H. Connors  
Norman D. Corwin  
Stanley Deutsch  
Mary M. Donald  
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Clement E. Papazian  
David L. Pierce  
Harry L. Pine  
Joel S. Rankin  
Donald L. Shapiro  
Jay R. Shapiro  
Julian A. Waller  
Alan Ziskind

### 1958

\$10,170 donated  
32 donors  
47.8% participation

Robert M. Abrams  
Folkert O. Belzer  
Glenna Birmingham  
John J. Chiarenza  
Yi-Chuan Ching  
Robert J. Conte  
David C. Cook  
Jean M.P. Doelling  
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Hart deC. Peterson  
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Albert Quintiliani Jr.  
Kenneth J. Ritter  
Francis P. Saunders  
A. Craig Shealy  
Sumner Stone  
Jerome D. Waye  
Albert Weinstein  
Richard D. Zonis

### 1959

\$5,775 donated  
29 donors  
48.3% participation

Mary (Webb) Ambler  
Nicholas C. Avery  
Thomas Belleau  
John M. Bennett  
Leonard Bouras  
Louis A. Casale  
Michael Field  
Frank C. Gazzaniga

James H. Gilmour Jr.  
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N. Chester Reynolds  
Jr.  
Robert H. Savola  
Richard L. Simmons  
Ronald A. Swanson  
Alfred W. Tenaglia  
J.R. Tucci  
Arnold Wong

### 1960

\$13,625 donated  
40 donors  
58.0% participation

George H. Abbot  
Morris S. Albert  
Frank H. Allen  
Jane V. Anderson  
Thomas P. Burton  
William R. Clark Jr.  
Robert C. Cochran  
Robert L. Conrad  
Mark H. Cooley  
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George W. Fontaine  
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Elliot P. Hastings  
Beldon A. Idelson  
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Warren Kantowitz  
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David H. Kramer  
Phoebe R. Krey  
Paul H. LaMarche  
Vincent Lanzoni  
J. Peter Maselli  
Walter Leo McLean  
Eleanor Nicolai  
McQuillen

James B. McQuillen  
John D. Murphy  
Ronald A. Schwartz  
Mario J. Sulco  
Thomas E. Shea  
Jason G. Silverman  
Richard R. Smith  
Martin L. Spivack  
Michael D. Walker  
Julian C. Wallace  
John J. Whalen Jr.

### 1961

\$11,280 donated  
27 donors  
47.4% participation

Philip J. Andrews  
Philip J. Arena  
Jeanne F. Arnold  
M. Barbara Carney  
Richard J. Cavell  
Stafford I. Cohen  
Lester S. Dewis  
Jack T. Evjy  
Alphonse L. Gallitano  
George Edward Garcia  
Edward E. Gilmour  
Laurence A. LaGattuta  
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Richard H. Litner  
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Joseph E. Magaro  
Daniel E. Moalli  
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Arthur J. Neiterman  
Simon C. Parisier  
Alan H. Rapoport  
Gordon B. Robbins  
Francis Scola  
Patricia Scola  
J. Elliott Taylor  
Burton White  
Philip S. White

### 1962

\$11,300 donated  
43 donors  
63.2% participation

Maurice J. Alfaro  
Roberta J. Apfel  
David S. Babin  
Merwyn Bagan  
Bryan A. Barber  
Anne Murray Bell  
William E. Billings Jr.  
Francis H. Boudreau  
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Bernard L. Huang  
Harvey I. Hurwitz  
Edward S. Kondi  
Ira J. Kowal  
James Lawrence III  
Roger L. LeMaire  
Henry T. Lew  
David B. Maline  
John M. Miller Jr.  
Arthur L. Naddell  
Joel Potash  
Roger D. Reville  
John J. Stavros  
Toshihisa Takei  
Carter B. Tallman  
H. Emerson Thomas Jr.  
John W. Towne  
David M. Van Nostrand  
George Walcott

Rose K.L. Wong  
Lawrence W. Wood  
Jeremiah O. Young  
Thomas J. Zaccheo

### 1963

\$15,875 donated  
46 donors  
65.7% participation

G. Curtis Barry  
A. Robert Bellows  
Alan H. Bennett  
Richard E. Bickham  
C. Michael Bliss  
Robert S. Boltax  
Judith Borit  
Robert B. Brown  
Charles D. Casat  
Richard J. Cea  
Joseph M. Civetta  
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Sarkis J. Kechejian  
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Robert W. Ruggeri  
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John N. Stephenson  
Andrew L. Taylor  
James D. Villiotte  
Alan J. Wabrek  
Gail Waldron  
Francis E. Wanat  
William F. Wieting  
Jane A. Winchester  
Herbert M. Wyman

### 1964

\$17,880 donated  
38 donors  
63.3% participation

Peter Aldin  
Edward P. Andersen  
Thomas C. Bagnoli  
Martha B. Boyd  
Putman P. Breed  
James R. Brown  
Robert S. Burroughs  
Joyce L. Chen  
John P. Cocchiarella  
Frederick E. Cox  
Joseph F. Di Troia

Mary Jane England  
Robert A. England  
J. Worth Estes  
Kenneth Farberman  
Richard V. Grentzenberg  
James A. Kearney  
Brenda M. Kelly  
Thornton C. Kline Jr.  
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Doris B. Nagel  
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Pierre E. Provost IV  
Robert M. Seymour  
Steven P. Shearing  
James T. Sparks  
Robert Szostak  
Charles E. Taylor  
Charles E. Teebagy  
Murray Waksman  
Kinsman E. Wright Jr.  
Lawrence A. Yannuzzi  
John Zerner

### 1965

\$12,350 donated  
48 donors  
70.6% participation

Irving M. Allen  
Anonymous  
Michael L.J. Apuzzo  
Rosalie Meissner  
Auster  
Pho Ba Da  
Donna R. Barnard  
Douglas E. Barnard  
Harry W. Bennert Jr.  
John M. Bete  
Harvey H. Borden  
Robert H. Brown  
William A. Christmas  
Peter L. Clark  
Curtis R. Clayman  
Charles T. Cloutier  
Benedict D.T. Daly  
Alain de La Chapelle  
Elizabeth C. Dooling  
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David T. Greenleaf  
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John A. Hermos  
Edgar Holmes  
David Hutchison  
Raymond A. Igou Jr.  
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Lily Moo Young

**1966**  
\$10,185 donated  
41 donors  
56.2% participation

Michael S. Annunziata  
John J. Barrett  
Aaron T. Billowitz  
Michael A. Bleicher  
Ronald E. Coutu  
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Henry M. Yager  
David H. Zornow

**1967**  
\$7,780 donated  
36 donors  
61.0% participation

Paul D. Allen  
Stephen M. Alpert  
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Marshall S. Bedine  
Wallace P. Berkowitz  
Anthony F. Bonacci  
Susan E. Bradford  
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Ethan M. Shevach  
Arthur D. Shiff  
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John K. Southard Jr.  
Eileen K. Starbranch  
Michael H. Weiss  
John G. Williams Jr.

**1968**  
\$16,465 donated  
43 donors  
57.3% participation

Theresia M.  
Bajusz-Moon  
Jeffery L. Barker  
Jeffrey L. Berenberg  
Frederick B. Berrien  
Eric A. Birken  
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James S. Brust  
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Anne Lowe Knasel  
Steven R. Kohn  
Paul A. Levine  
Bruce W. Lowney  
Richard J. Mackool  
Gerald H. Margolis  
Charles Nordell  
Geraldine Oliva  
Lloyd F. Price  
Laurence M. Rheingold  
James W. Rosenberg  
Calvin C. Ross  
Elliott D. Ross  
Stephen H. Rostler  
Deeb N. Salem  
Marjorie B. Sanders  
Jeffrey A. Shane  
Barry E. Sieger  
Geoffrey Simon

Henry L. Sommers

**1969**  
\$12,465 donated  
39 donors  
55.7% participation

Joyce R. Adamson  
Constance A. Anton  
Clare L. Dana  
Michael S. Drucker  
Robert A. Dye  
Bruce L. Eames  
Geraldine L. Feldman  
Jack Ferlinz  
Judith Stone Fineberg  
Arthur P. Fisch  
Daniel E. Fischer  
George G. Fishman  
Barbara Herman  
Fleming  
Edward W. Forbes  
David P. Gold  
Ronald A. Grant  
Frederic E.J. Helbig  
Lester K. Henderson Jr.  
J. Kent Hewitt  
George L. Hines  
Jean G. Janelle  
Stephen Lazoff  
David A. Levinson  
Jon C. Lochner  
Forbes A. McMullin  
Peter M. Mencher  
Jeffrey R. Nurenberg  
R. Ryan Platt  
Michael Salcman  
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Michael J. Scollins  
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Kenneth C. Spengler Jr.  
J. Raoul St. Pierre  
Elihu L. Sussman  
Peter F.R. Walker  
Charles Wasserman  
Leonard J. Zwerling

**1970**  
\$11,245 donated  
30 donors  
48.4% participation

Michael J. Albom  
Ronald F. Backer  
Richard A. Bernstein  
Jeremy Chess  
Allan D. Converse III  
Bruce R. Davidson  
Spencer P. Falcon  
Joseph S. Fastow  
Gene A. Grindlinger  
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Gail Kaplan Kraft  
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Thomas P. Massello  
Richard A. Mayo  
Steven Abbott Miller  
David G. Poplack

Mark S. Rapoport  
Anne-Marie Regal  
Richard A. Rubenstein  
Harold S. Schell  
Daniel H. Schimmel  
Harvey M. Silverman  
Mike B. Siroky  
Robert O. Valerio  
Robert A. Vigersky  
Donald J. Zeller

**1971**  
\$5,822.50 donated  
39 donors  
50.6% participation

Barry R. Alter  
Raymond F. Anthracite  
Madeline Bacht  
Steven J. Block  
Martin M. Bress  
Carl J. Brotman  
Henry D. Childs  
Paul B. Cohen  
Wayne R. Cohen  
Mark O. Cutler  
David P. Denune  
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McLaughlin  
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Carol A. O'Neil  
Joseph P. Ornato  
Herbert S. Plovnick  
Julia A. Rosekrans  
Louis E. Rosenthal  
Allen J. Rovner  
Gretchen Kasper  
Silverman  
Nancy L. Sprince  
Peter M. Taft  
Jerry R. Wexler  
George P. Whitelaw Jr.  
Joshua Wynne

**1972**  
\$8,725 donated  
47 donors  
51.6% participation

Mark H. Allen  
Barry J. Benjamin  
Gary Briefel  
Samuel A. Burstein  
Gregory G. Cheung  
Michael L. Corbett  
Charles A. DiSabatino  
Jr.  
Edward V. Famiglietti  
Jr.

David J. Feldman  
Edward M. Fine  
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William F. Garvin  
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Eric G. Honig  
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Alan Keith Kronhaus  
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George A. Parker  
Alan S. Peterson  
David R. Rowden  
Donald S. Ruffett  
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Stephen H. Schneider  
Joel R. Schulman  
Mark P. Shampain  
Bruce K. Shapiro  
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Stephen R. Smith  
A. David Sydney  
Philip H. Thielhelm  
Joseph J. Torre  
Jeffrey Tulin-Silver  
Albert R. Ward  
James S. Weiner  
R. Peter Wittmann

**1973**  
\$6,437.50 donated  
41 donors  
44.1% participation

Nancy E. Anthracite  
Andrew Besen  
Lynne Gradinger Besen  
Ellen G. Blumenthal  
George J. Brown  
Michael J. Cassidy  
Eugene M. DiGiovanni  
Robert R. Ditkoff  
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Henry S. White  
Konstantine K.  
Yankopolus  
C.W. Zarnoch  
James H. Zuger

**1974**  
\$10,414 donated  
47 donors  
48.5% participation

Robert G. Alexander  
Edward F. Baird  
James A. Benson  
Marvin D. Berman  
Steven P. Bloom  
Robert W. Chamberlain  
Dorothy Chase  
David J. Chronley  
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James B. Southard III  
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Stephen A. Wasilewski  
Gary J. Wolf  
Robert R. Wolff  
Hilary G. Worthen

**1975**  
\$8,077.50 donated  
46 donors  
44.7% participation

Robert M. Austin  
David Beardsworth  
Steven L. Berk  
Barbara H. Bjornson  
Linda Cashin-Hemphill  
Brad M. Cogan  
Theslee Joy DePiero  
John B. Dewey  
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Lindsey C. Kiser  
Mary Kraft  
Edward V. Lally  
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Edward J. Sherwood  
Allan W. Silberman  
Monte I. Stavits  
Channing S. Swan II  
Suzanne Stelmach  
Tuluri  
David L. Weinbaum  
Lucille I. Weinstein  
John F. Yee

**1976**  
\$7,237.50 donated  
44 donors  
36.1% participation

Gilbert Jerome Beers  
Edward R. Berman  
Jeffrey R. Breiter  
Ben R. Bronstein  
Don Buswell-Charkow  
William E. Caplan  
Deborah J. Cotton  
Russell C. Dabrowski  
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Ethan H. Kisch  
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Laurence M. Weinberg  
Gail R. Weingast  
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Richard E. Wilker  
Barry J. Zamost  
John D. Zelem

**1977**  
\$6,320 donated  
51 donors  
38.9% participation

Richard C. Albrecht  
Robert W. Antelman  
Philip S. Barie  
Frank J. Battista  
Richard S. Beaser  
Douglas G. Bentley  
Mark J. Berenberg  
Andrew F. Berezin  
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Joel S. Golden  
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James A. Grove  
James J. Heffernan  
Joel M. Kaufman  
Marilyn G. Pearson  
Kelleher  
Joseph J. Konefal  
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Irma M. Lessell  
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Myron Maron  
Terence Matalon  
Michael S. Niederman  
Paul Pechman  
Kathleen S. Pelzmann  
John J. Przygoda  
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Kathryn N. Shands  
Jo-Anne O'Malley  
Shepard  
Toby Ann Silverman  
Robert A. Snyder  
Gary L. Stanton  
Gary M. Tanguay  
Richard I. Turkanis  
Robert Wesselhoef III  
Philip Wisiackas  
Robert A. Witzburg

**1978**  
\$5,735 donated  
53 donors  
39.8% participation

James E. Andrews  
Carola A.S. Arndt  
Steven J. Bellin  
Daphne L. Blackburn  
Johan Gerard Blickman  
Edith E. Braun-Levine  
Jean Brodnax  
Hugo J.M. Cerri  
Fawn Cohen  
Lillian Cohn  
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Masha Etkin  
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Herrmann  
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Dennis L. Sprecher  
Judith Strymish  
Stephen B. Sulkes  
Richard D. Tanner  
James P. Varner  
Eileen Winston  
Peak Woo

**1979**  
\$8,930 donated  
67 donors  
47.5% participation

John J. Adams  
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Edward L. Bedrick  
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Ellen M. Black  
Constance N. Blade  
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Robert K. Jackler  
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Barbara Hochberger  
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J. David Ogilby  
Dianne M. Parrotte  
Gale S. Pasternack  
Stephen R. Peters  
James G. Petros  
John Polio  
Frank B. Pomposelli  
Sylvia M. Purugganan  
Elizabeth A. Robbins  
Kert D. Sabbath  
Stephen C. Saris  
Martha Grunewald  
Sheridan  
Robert L. Sheridan  
Brent E. Smith  
Joseph B. Taylor  
Barton C. Trover II  
Joel M. Trugman  
Sheila Trugman  
Carolyn Welsh  
Edward R. White  
Joseph Daniel White  
Richard L. Zizza

## Donors to the Annual Fund

### 1980

\$14,265 donated  
51 donors  
38.6% participation

Winston D. Alt  
Debra A. Babcock  
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Alan Horowitz  
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Kenneth B. Kassler-  
Taub  
Audrey S. Koh  
Norman A. Kornwitz  
Andrew L. Kriegel  
Linda J. Lemay  
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Lerner  
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Susan M. Strahosky  
Frank Toppo  
Stephen J. Travers  
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Scott E. Wang  
Mark C. Weissler  
Susan Polakoff  
Zeveloff

### 1981

\$3,340 donated  
49 donors  
34.5% participation

Ralph L. Chester  
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Bonnie Edelman  
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Jonathan I. Epstein

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Langer  
Jordan Leff  
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Robert M. Lincer  
Mary Ellen McCann  
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Lucy Cinderella  
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Peter M. Seymour  
Natacha Villamia  
Sochat  
Michel J.C. Taupin  
Mary L. Todd  
Kathleen M. Toivanen

### 1982

\$3,230 donated  
45 donors  
31.3% participation

Demetrios Antoniou  
Joseph Alfred Bachicha  
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Paul L. Baron  
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Carl Bettinger  
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Manuel R. Cabrera  
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Mark Daniel Farb  
James H. Farmer  
Andrea R. Fox  
Scott D. Harris  
Barbara L. Hartwell  
Dean C. Howard  
Bettina B. Kilburn

+

Barbara M. Krause  
Thomas A. Lamattina  
Juliette Lomax-Homier  
Joan Longer  
Peter J. Lydon  
Mark Marrama  
Benetta Levine Miller  
David W. Nelson  
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David N. Schwartz  
Deborah Anne Silen  
Christopher Sinesi  
John K. Terzian  
Jonathan C. Thatcher  
Kenneth S. Thompson  
John P. Wei  
Jeffrey M. Wilson

### 1983

\$1,731.50 donated  
32 donors  
22.2% participation

Anonymous  
Steven E. Arnold  
Karen R. Amato Barnett  
Paul F. Barresi  
Mary C. Burke  
Henry W. Cheu  
James E. Corwin  
Howard A. Fogel  
Steven J. Fox  
Frederick A. Godley  
Andrew Goldenberg  
Paul E. Kalb  
Rhonda Kaufman  
Jeffrey M. Liebmann  
Beverly J. Loudin  
Michael Makaretz  
Peter J. Mannon  
Stephen P. Montgomery  
Carol A. Murphy  
Samuel J. Peretsman  
Jacqueline Perry  
Joy B. Peskin  
Bruce Rashbaum  
Sandra H. Raymore  
Elise K. Richman  
Alan L. Rothman  
Ralph L. Sacco  
David S. Shulman  
John Brennan Stockel  
Richard Torres  
Kalman L. Watsky  
William E. Wise Jr.

### 1984

\$1,837.50 donated  
42 donors  
28.4% participation

Paul A. Aiello  
Luis A. Bauzo  
Laura D. Bookman  
Lenore J. Brancato

Rebecca P. Brightman  
Nancy L. Chapin  
D. Christopher Clark  
John P. Clayton III  
Douglas A. Conigliaro  
Patricia A. Connolly  
Mark E. Costa  
David P. DiChiara  
Joshua D.I. Ellenhorn  
Robert S. Falcone  
Robert B. Finegold  
Evan Geller  
Jon B. Getz  
Neal D. Gittleman  
Jeffrey P. Hurler  
Patricia G. Jones  
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Kathleen E. Kearney  
William A. Larchian  
Richard A. Leder  
Jeffrey K. Levin-Scherz  
Craig W. Lopatka  
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Polly J. Panitz  
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Morris Pasternack Jr.  
Dennis M. Plante  
Nancy A. Roberson  
Pamela W. Rodday  
Paul E. Schulz  
Mindy R. Shankman  
Evan L. Siegel  
Rebecca E. Snider  
J. Scott Steinmetz  
Diane J. Weiss  
Marsha L. Zellner

### 1985

\$885 donated  
21 donors  
14.6% participation

Shari Abramowitz  
Max M. April  
Elizabeth D. Barnett  
Elizabeth A. Beane  
Warren Duvall Briscoe  
II  
William Robert Creevy  
Denis Paul Dupuis  
Blake I. Evernden  
Suzanne Gagnon  
Bartlett H. Hayes II  
Marc Hochler  
Karen M. Kyle  
Jeffrey Scott Lamont  
I. Michael Leitman  
Daniel G. Luba  
Louise M. Maloney  
Jeffrey M. Morse  
Alan S. Multz  
William V. Raszka  
Lawrence A. Schissel  
Michael P. Stevens

### 1986

\$745 donated  
20 donors  
14.3% participation

Scott I. Afran  
Joseph Scott Baler

Karen Miller Boudreau  
Janis Margaret Brown  
Benjamin William Corn  
Carol L. Cusson  
Jonathan T. Donaldson  
Joan Susan Elkins  
Douglas W. Fellows  
Ziv J. Haskal  
Marina D. Liem  
Cheryl Ann Melick  
Gayle P. Milton  
Kevin E. Schmidt  
David Adam Sigalow  
Geoffrey M. Silver  
Stanley D. Strzempko  
Kevin John Walsh  
Lee H. Winter  
Roy Ziegelstein

### 1987

\$685 donated  
25 donors  
17.2% participation

Stewart F. Babbott  
Jay M. Barnett  
Stephen W. Behrman  
Erin M. Bohan  
Christiane O'Connor  
Corriveau  
Janet Asprelli Crino  
Maura A. Fagan  
John T. Gorczyca  
Patrick J. Healey  
Julie Kaufmann  
Sonia Y. Kragh  
Joseph A. Levine  
Robert H. Levine  
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Janet J. Moses  
Brian F. O'Donnell  
Laura M. Prager  
Pierre E. Provost V  
David J. Rullo  
Howard P. Safran  
Bruce E. Sands  
Susan Scherl  
Barbara M. Seagle  
Daniel Steinberg  
Richard D. Zenn

### 1988

\$220 donated  
13 donors  
8.6% participation

Daniel Alan Adelberg  
Karen E. Bayle  
Alfred J. Burgo  
Jennifer A. Clark  
Ronni L. Goldsmith  
Brian F. Groden  
Howard K. Herman  
Edith M. Jolin  
Frank S. Lee  
William C. Quist  
Carl Rosen  
Robert D. Solomon  
Tanja VanderLinde

### 1992

Carol L. Sprague  
Savage

**Class of 1989 Gift Program**

For the third consecutive year, graduating seniors elected to designate their Class Gift to Boston City Hospital's pediatric AIDS program. A check was presented to Joel J. Alpert, M.D., professor and chairman of the Department of Pediatrics at the School of Medicine and chief of pediatrics at BCH.

In a letter to members of the Class of 1989, Alpert wrote, "Thank you for your generous gift to help our pediatric AIDS program at Boston City Hospital. Your judgment that the program is worthy of continued support is assurance to me that you, like your predecessors, care. Your gift will help us provide comforts for these children who are the most vulnerable of our patients. I am proud of you and what you say about yourselves as graduates of Boston University School of Medicine."

Donors to the Class of 1989 Gift Program included:

- |                       |                        |
|-----------------------|------------------------|
| Peter Angelos         | Hilary S. Kassler      |
| Charles M. Bliss Jr.  | Mary Plunkett Kelliher |
| Gloria J.             | Rebecca S. Knapp       |
| Bowles-Johnson        | Richard E. Luka        |
| JoAnn Buonomano       | Bonnie T. Mackool      |
| Daniel M. Carson      | Maria Molina           |
| William G. Costello   | Jean E. Murray         |
| Sarah Rodriguez       | Patrick H. Nachman     |
| De Guzman             | Steven M. Patalano     |
| James C. Ding         | George Michael Plotkin |
| Ronald J. Ellis       | Katherine A. Powers    |
| David A. Fahey        | Jay E. Rosenfeld       |
| Bernard A. Feigenbaum | Sandra Johnson Savoie  |
| Blanca R. Gamboa      | Eric J. Sax            |
| James T. Go           | Kurt C. Sizer          |
| Robert L. Gore        | Monica Smiddy          |
| Steven M. Greenberg   | Anthony J. Vaccaro     |
| Terrance G. Hanlon    | Laura Vitale           |
| Karin J. Hemmingsen   | Donna L. Washington    |
| Gerald A. Hladik      | Patricia J. Williams   |

**AMA/ERF Contributors**

- Edward P. Andersen '64  
 John C. Ayres '43-B  
 Stanley R. Balon '79  
 M. Leroy Barry '43-A  
 Marshall S. Bedine '67  
 Wallace W. Bednarz '52  
 Edward A. Beeman '47  
 Irving H. Berkovitz '50  
 Richard E. Bickham '63  
 Harold P. Blum '53  
 Mrs. Walter S. Booth  
 Dr. and Mrs. F. Borges  
 Steven J. Brand '79  
 Richard A. Chiulli '77  
 Constance G.H.  
 Cincotti '35  
 Brad M. Cogan '75  
 Steven F. Cogan '68  
 David C. Cook '58  
 David A.  
 D'Alessandro '66  
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 Ellen Sue Eisenberg '77  
 Judy Falk  
 Donald S. Farquhar '75  
 Paul O. Farr '74  
 Joseph S. Fastow '70  
 Joseph H. Feldman '49  
 Dr. and Mrs. R.J.  
 Fontaine  
 Henry H. Frenkel '52  
 Bernard Goldberg '50

- Joseph H. Goldberger '75  
 Mark N. Goldstein '74  
 Shozo Iba '45  
 Jonathan R. Insel '71  
 + Cyril Israel '26  
 Stanley P. Jacobs '74  
 Jean G. Janelle '69  
 J.I. Joseph, M.D.  
 Fred M. Krainin '81  
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 Mark S. Moskowitz '74  
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 Arthur C. O'Brien '48  
 J. Scott Pennepacker '45  
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 George Rosenthal, M.D.  
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 John I. Sandson, M.D.  
 Max G. Sherer '50  
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 Charles E. Teebagy '64  
 Arnold Wong '59  
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 Kinsman E. Wright Jr. '64  
 K. Yu, M.D.  
 James H. Zuger '73

**Memorial Gifts**

- In Memory of**  
 Dr. Minoru Araki '53  
 Pearl Araki
- In Memory of**  
 Dr. Fairy P. Brown '21  
 Barbara E. Adams  
 Frances Adams
- In Memory of**  
 Dr. Leroy S. Ford '33  
 Isabel Appel Ford
- In Memory of**  
 Dr. Maurice E. Green '37  
 Josephine B. Green
- In Memory of**  
 Dr. Joan Longer '82  
 Dr. and Mrs. Sy Bigman  
 and Family
- In Memory of**  
 Dr. Richard C. Taylor '39  
 Catharine T. Taylor

**Matching Gift Companies**

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 The Boston Edison Foundation  
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 Digital Equipment Company  
 General Electric Company Foundation  
 The Gillette Company  
 The Hospital Corporation of America Foundation  
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# Alumni News

## Awards, scientific sessions highlight BUSM Alumni Weekend

The presentation of Distinguished Alumnus Awards to three outstanding BUSM graduates and the presentation of scientific papers by the Class of 1964 were among the highlights of BUSM's Alumni Weekend, held May 12 and 13 in Boston. The awards were presented at the Alumni Association's 114th annual meeting and banquet on May 13 at the 57 Restaurant.

### Awards were presented to the following:

- **Ralph D. Feigin '62**, physician-in-chief and executive vice president of Texas Children's Hospital and professor and chairman of the department of pediatrics at Baylor College of Medicine. Feigin, who also serves as physician-in-chief of pediatric services at Ben Taub General and Jefferson Davis Hospitals in Houston, Texas, has made presentations and written numerous papers about pediatrics and pediatric infectious diseases. He has served on various local, state and national committees and has received many awards and honors.
- **Lawrence A. Yannuzzi '64**, chief of Medical Retinal Services, director of the Laser Research Laboratory, surgeon

director of ophthalmology, and director of retinal research at Manhattan Eye, Ear, and Throat Hospital. Yannuzzi, who is also an instructor at the American Academy of Ophthalmology and an associate professor of clinical ophthalmology at Columbia University Medical School, has made several contributions to the field of chorioretinal diseases. He belongs to many professional societies, including the Retina Society, the Macula Society, the Gonin Club (an international retinal society) and the American Ophthalmological Society.

- **David G. Poplack '70**, head of the leukemia biology section at the National Cancer Institute of the National Institutes of Health. Poplack has served on several editorial boards and many committees. Poplack's research interests include the biology and treatment of acute leukemia and the clinical pharmacology of anti-neoplastic agents in children. He has received numerous honors and awards, including the United States Public Health Service Meritorious Service Medal in 1984.

William M. Bass, Ph.D., professor and head of the Department of Anthropology at the University of Tennessee, Knoxville,

was the guest speaker at the annual meeting and banquet. Bass's speech, entitled "Forensic Fire Investigations," included slides of often overlooked pieces of evidence. Bass is a nationally recognized leader in forensic fire investigations.

### The scientific program

Members of the Class of 1964 presented papers during the scientific program held May 13 at the School. J. Worth Estes, M.D., a professor of pharmacology and an associate professor of socio-medical sciences at BUSM, spoke on "Experimentation on Fever and its Treatment before Thermometers." "Prevention of Neonatal Bacteremia and Colonization in an Animal Model" was presented by Frederick Cox, M.D., an associate professor of pediatrics and chief of the infectious disease section at the Medical College of Georgia. Steven P. Shearing, M.D., medical director of Shearing Eye Institute in Las Vegas, Nev., presented "Factors of Innovation Today: My Experience as an Inventor in the Field of Intraocular Lenses." Lawrence A. Yannuzzi, M.D., who also was presented with an Alumnus Award during the weekend activities, spoke on "Age-Related Macular Degeneration." "Trends in Mental Health" was presented by Mary Jane England, M.D., vice president of Group Medical Services of the Prudential, Group and Financial Services Office and director of the Robert Wood Johnson Foundation's Mental Health Services Program for Youth. Other Alumni Weekend activities included private parties for reunion classes and a reception and luncheon.



Alumni Award Recipient  
Ralph D. Feigin '62



Alumni Award Recipient  
Lawrence A. Yannuzzi '64



Alumni Award Recipient  
David G. Poplack '70

## Class notes

27

L.B. Slysz of New Britain, Conn., writes, "Still a G.P.—62 years."

28

Morris Katcher of Brooklyn, N.Y., has fully recovered from a fracture of the hip, following a fall while dancing with his lovely wife, Phyllis. They were doing a half-fast mambo at the time. Recovery was rather rapid (2 1/2 months). They will now dance a half-fast cha-cha.

29

Harry Freedberg of Laguna Hills, Calif., writes, "I am enjoying my retirement but am unable to attend the reunion. Greetings to my fellow classmates of '29."

35

Bernard M. Halbstein of Interlaken, N.J., reports, "I am semi-retired—surgery eliminated. I hope to come to my class reunion in '90."

Willard D. Nalchajian of Chelsea, Mass., writes, "My practice is limited to geriatrics only."

Harold I. Shuman of Chestnut Hill, Mass., submits, "I am enjoying retirement, good health, grandchildren, travel, and tennis."

37

Pauline Luzackas of Cambridge, Mass., reports, "After fifty years, I am finally retiring to enjoy my hobbies of painting and gardening."

39

John S. Snider of Irvington, Va., notes, "I am Board of Surgery FACS, director of surgery at Staten Island Hospital, Staten Island, N.Y. I established a four-year, approved general surgery residency. I worked with S.I. dentists to affiliate and also establish a dental residency. U.S. Navy—Mediterranean Theatre—Anjou and Southern France invasions. I retired from active practice in 1978 and moved to beautiful Virginia. I have kept in touch with **Matty Moroz '39** and actively with **Jim Boyd '39**, until his demise three years ago. I am golfing and fishing. I also call **Chet Modeski '39** at times."



Attending the 50th Reunion Reception of the Class of 1939 were, seated, left to right, Ruth R. Simoneau, Arthur G. Simoneau, Sylvia C. Fiumara, Nicholas J. Fiumara, June Yoburn, Michael Myer Yoburn. Standing, left to right, were Kenneth A. McClane, Saul K. Dopkeen, Flora Dopkeen, Matthew A. Moroz, Doris Moroz, Arthur B. Wein, Mary Lou Wein, Timothy L. Curran, Angelo Mastrangelo.

42

Elizabeth A. Gregory of Arlington, Mass., writes, "I retired after 43 years of the practice of pediatrics on 12/1/88. On April 9, 1989, over 500 of my patients attended a reception honoring me (in Arlington Town Hall). I received proclamations from the governor of Massachusetts and the Board of Selectmen of Arlington (full of "whereases") and naming it Elizabeth A. Gregory Day."

Phyllis Koteen of South Salem, N.Y., announces, "The Koteens have added a ninth grandchild, Nicholas Young. Our oldest grandson, Daniel Koteen, graduated from college this year. We,

Herb and I, continue to enjoy winters in St. Croix and summers in South Salem. We are well and active. Herb just celebrated his 50th year of graduation from Johns Hopkins—a very gala affair."

43-A

Philip S. Spence of Richmond, Texas, notes, "On January 9, 1940, Helen and I had the first class baby, Catherine. On January 21, 1985, Carolyn and I had the last class baby (I bet), Amy Lynn."

43-B

Robert C. Rainie of Concord, N.H., writes, "Dode (Merino, MMH School of Nursing) and I had a delightful visit with **Paul Ossen '43-B** at the Reunion Luncheon, May 1988. We had trouble finding our way around—nothing was familiar, like Evans IV and Collamore IV, where I met my future wife. We chatted with **Ted Potter '38**, now in New Hampshire, and **Helen Provost '35**, who worked with me in the New Hampshire Division of Social Security Disability Determinations, where I'm still chief medical consultant. I'm still busy with church music, trombone and sports."



*Walter S. Mozden '39 receiving 50th Reunion Memento from Pierre Provost at the Saturday afternoon luncheon.*

## 44

**Alfred A. Figliozzi** of Granada Hills, Calif., reports, "I've been retired almost five years now. I spend most of my time in my woodworking shop—making 'fun' things for my four grandchildren. I reminisce a great deal, especially about BUSM and my classmates. Hope to see you all at the 50th Reunion."

**Seda Aronian Sparling** of Shirley, Mass., submits, "I retired in June, 1988. I traveled to Hawaii and had a lovely luncheon visit with classmate, **Herb Chinn '44**, and his gracious wife."

## 45

**Edward F. Caruso** of Longmeadow, Mass., contributes, "I have been retired for three years, and am vegetating peacefully."

## 48

**Helen O'Brien-Cullina** of West Hartford, Conn., writes, "I am retiring in July, 1989 after 39 years of pediatrics. I tried private practice but spent the majority of time running an inner-city clinic for the Hartford Health Department. My husband is still working (in pediatrics), our five children are educated and on their own, so it's time for me to loaf and enjoy the grandchildren!"

## 50

**G. Robert Baler** of Brockton, Mass., reports, "I have been appointed clinical professor in the Dermatology Department at BUSM. My son, **Joe '86**, will be starting Dermatology residency this year in Detroit and will be married by then. Everyone is happy and very involved. My other four children are in social work, real estate, bank management, and computer sales."

**Irving H. Berkovitz** of Los Angeles, Calif., updates, "I've resigned from the L.A. County Department of Mental Health and do mostly private practice, consulting and teaching. I still miss my Boston friends and hope to see some at the 40th Reunion of the Class of '49."

**Eben H. Dustin** of Falls Church, Va., recently retired as medical director of the U.S. Department of State and Foreign Service, and was presented with the Wilbur J. Carr Award, the department of state's highest award for retiring senior Foreign Service Officers. In presenting the award, U.S. Secretary of State George Shultz recognized Dustin for his exceptional contributions to the department's medical program. During his 28 years of federal service, he also received the Department of State's Superior and Distinguished Honor Awards, and in 1985 was a recipient of the Presidential Meritorious Service Award. His wife writes, "My husband graduated BUSM in 1950. While in the Foreign Service, he served as medical officer at American Embassies in Kabul, Afghanistan; Monrovia, Liberia; Vientiane, Laos; Saigon, Viet Nam; and Vienna, Austria. We will be retiring to our new home in New Hampshire in the fall."

**Luigi Mastroianni Jr.** of Haverford, Pa., received the prestigious King Faisal International Prize in Medicine on March 19. He was cited for his studies of human fallopian tubes and his experiments which helped to establish in vitro fertilization procedures. The chosen topic for this year's prize in medicine was infertility. He will share the prize with Dr. Robert Geoffrey Edwards of Cambridge University.

## 51

**Bertram Fleshler** of Beachwood, Ohio, writes, "I stepped down from the chair of the Department of Gastroenterology at the Cleveland Clinic. I am active as 'senior physician' clinically, teaching and administrative activities. I currently am the governor for the American College of Physicians for Ohio (until 1992). On a personal note, my son is a lawyer in Cleveland, and my daughter is a nursery school teacher in California. No marriages."



*Eben H. Dustin '50*

## 52

**The Rev. Robert W. Bain** of Westborough, Mass., reports, "I have retired completely from medicine and work 40 hours a week for the Episcopal Church. I am having a wonderful time visiting sick and shut-ins and listening to complaints about doctors and hospitals, hoping that I am smoothing some misunderstandings and expediting some care problems. Please everyone—try to

die at home—I have no sympathy for resuscitation of those over 75. I am happy to talk about the ethics of death." **Arthur H. Levere** of Suffern, N.Y., submits, "I retired in July, 1988. I am spending time between Suffern and Naples, Fla. The family is all well. My grandson, Alexander, is one year old; my son, Steven, recently became engaged." **Frank L. Pettinga** of Grand Haven, Mich., writes, "For the last 2 1/2 years I have been medical director for Hackley Hospital in Muskegon."



*Members of the Class of 1964 attending their 25th Reunion Dinner Party included, seated, left to right, Ruth M. Lawrence, Joseph F. Di Troia, Pierre E. Provost IV, Mary Jane England, Anita L. Mitchell, John P. Cocchiarella and Thornton C. Kline Jr.. First row, standing, left to right, are Virginia A. Monafó, Kenneth Farbman, Kinsman E. Wright, Jr., Thomas C. Bagnoli, Charles E. Taylor, Edward P. Andersen, John Zerner, and J. Worth Estes. Second row, standing, left to right, are Frederick E. Cox, Richard V. Grentzenberg, Henry M. Pollock III, Steven P. Shearing, Lawrence A. Yannuzzi and Robert S. Burroughs.*

## 53

**Henry C. Lincoln** of Swansea, Mass., retired on July 1, 1989. He writes, "Too much red tape and over-regulation!"

## 54

**Robert M. Berk** of Bronx, N.Y., reports, "My daughter, **Elizabeth Berk**, is entering her fourth year at BUSM (class of '90)."

**Robert S. Marnoy** of Houston, Texas, writes, "Sorry I cannot attend my class reunion in May."

## 56

**Melvin Stahl** of San Luis Obispo, Calif., contributes, "I am still in practice, solo pathology, in a community hospital on the Central California coast, 90 miles north of Santa Barbara. My youngest son, **Dave**, is finishing his third year at BUSM. In spite of all I've warned him, he still wants to be a pathologist. He spent one year at Mallory as a fellow in pathology between his second and third years at BUSM. That cinched it. Debbie is practicing law in Minnesota. Susan is a staff nurse on the adolescent unit, University of Wisconsin at Madison. Larry is working in Silicon Valley in computers. Roberta and I look forward to 'hanging it up' and visiting everyone via trailering across the U.S."

## 60

**Eleanor Nicolai McQuillen** of Shelburne, Vt., submits, "I'm getting a MSA (Master

of Science in Administration) at St. Michael's College in Winooski, Vt. I am preparing to retire from 'public practice' in 1990 to go into private consultative practice in forensic medicine and management in medicine."

## 66

**Victor T. Williams** of Las Vegas, Nev., writes, "I am enjoying solo practice. I just finished a two-year term as chief of General Surgery Subsection at Humana Sunrise Hospital. I'm hoping to return to retire in American Samoa in five more years. Las Vegas is a great town, but there's just no place like home."

## 68

**Jeffery L. Barker** of Bethesda, Md., reports, "I am enjoying my career in the Public Health Service as a medical director whose mission is improving our understanding of intercellular communication in the vertebrate CNS and elucidating some of the basic mechanisms of drug action. Every day is an opportunity; the laboratory of investigators from all over the world is the experiment. I hope to unravel certain insights with clinical relevance from this basic neuroscience enterprise."

## 71

**Henry D. Childs** of Maynard, Mass., writes, "In-depth preventive medicine lifestyle teaching and training of my patients continues to be very satisfying. The struggle to survive economically and emotionally in this state is much harder than it should be, and it's sad and discouraging to have lost many friends and colleagues in the last two years because of these pressures. It's clear that every one of us must be involved now, politically and in the community, to promote better understanding, long-term thinking, less entitlement, and more fairness!"

## 72

**A. David Sydney** of Newtown, Pa., updates, "I have been writing stories and have had some luck in the horror field recently—with stories accepted by *New Blood*, *Night Slivers*, *Deathrealm*, *Weird Fiction Catalog*, and *Innisfree*."

## 73

**Arthur R. Kennedy Jr.** of Wellesley, Mass., recently was elected president of the medical staff at Newton-Wellesley Hospital. He is an internist, and has been a member of NWH's medical staff since 1976. He is also a clinical instructor at Tufts University School of Medicine and

is certified by the American Board of Internal Medicine.

## 74

**Paul M. Leiman** of Clarks Green, Pa., writes, "It was wonderful being back in Boston for our 15th-year reunion. Those of us who came for one or both evenings greatly enjoyed ourselves and enjoyed renewing old relationships. I'm only sorry that more of our classmates couldn't have joined us. Best wishes to those who couldn't be there, and I hope to see you in five years for our 20th! On a personal note, Carol and I are still living outside of Scranton, where I'm practicing diagnostic radiology. This past month, Scott, our oldest, celebrated his Bar Mitzvah. Seth, his younger brother, is now 10."

## 75

**Lindsey K. and Neil J. Grossman '76** of Columbus, Ohio report, "Both of us have just been promoted to associate professors in the Department of Pediatrics at Ohio State University. Neil, in the Division of Pediatric Hematology/Oncology, directs the Pediatric Comprehensive Sickle Cell Center at Children's Hospital in Columbus. Lindsey was just named section chief/division director of Ambulatory Pediatrics and assistant medical director for Ambulatory Pediatrics at Children's Hospital. Although we and our daughters, Katy, 11, and Jenny, 8, enjoy Ohio very much, we sorely miss New England and vacation every August on Martha's Vineyard!"

**Andrew M. Kahn** of Houston, Texas, writes, "Cathi and I are the proud parents of Lindsay, 8, and Brittany, 5. Since my renal fellowship, I have been a faculty member at the University of Texas Medical School at Houston, where I am now an associate professor of medicine in the Division of Nephrology."

## 76

**Deborah J. Cotton** of Newtonville, Mass., clinical director for AIDS at Beth Israel Hospital, was among the first to research the AIDS virus. Now a nationally

recognized authority, she says the treatment of women will be the next big hurdle. "Women are the coming wave of AIDS victims, especially inner-city women."

**Richard E. Wilker** of Chestnut Hill, Mass., recently was appointed chief of Neonatology at Newton-Wellesley Hospital, where he will be responsible for attending to high-risk deliveries and coordinating 24-hour coverage for babies in the Special Care Nursery. He has been a member of the hospital's medical staff since 1986. He will also serve as a consultant to Newton-Wellesley Hospital obstetricians, and he is an instructor in pediatrics and senior staff member for the Joint Program in Neonatology at Harvard Medical School.

## 77

**Richard Seth Beaser** of Newton, Mass., has been named medical advisor to the Greater Boston Diabetes Society. He is a staff physician at the Joslin Diabetes Center/New England Deaconess Hospital, Boston.

**Joel M. Kaufman** of Worcester, Mass., writes, "In December, I was appointed medical director at Fallon Community Health Plan, a 95,000-member group-model HMO in Worcester. I still practice neurology most of the time, and I enjoy both practice and administrative responsibilities."

**Richard S. Rome** of Fort Worth, Texas, writes, "I'm still practicing radiology and nucs at Carswell Air Force Base. Please continue to pay your taxes! Lin's finishing up at Texas Christian University, Shari is off to a University of Texas school in September and Becca's valiantly tucking away the sixth grade. All's peaceful."

## 78

**Carlos S. Beharie** of Mesa, Ariz., has been appointed senior medical director of FHP, Inc.'s Arizona region, which is a federally qualified health maintenance organization. He has been an FHP physician since 1982 and formerly served as FHP's medical director in Guam. He is a member of the American College of Obstetrics and Gynecology and the American College of Physician Execu-

tives. He is a diplomate of the National Board of Medical Examiners and the American Board of Obstetrics and Gynecology; and a fellow of the American College of Obstetrics and Gynecology.

**Andrew S. Malbin** of Oldsmar, Fla., submits, "I was happy to see many of my classmates at last year's ten-year reunion. My wife, Carolyn M. Coryell, M.D., recently was elected chief of surgery at Town and Country Hospital of Tampa. I'm practicing emergency medicine in Tampa and recently became board certified in my specialty."

**Stephen G. Porter** of Brookline, Mass., reports, "I continue to divide my time between teaching at New England Medical Center, directing the South Boston Court Clinic and a busy private practice in Brookline. My subspecialization continues to be forensic child psychiatry. We are expecting our second child within the month. It was quite fine to see so many old friends at our 10th."

**Amy J. Robbins** of Bronxville, N.Y., announces, "For those of you who haven't heard, my husband, Gordon Danis, and I are proud parents of Hillary, born January 10, 1988. She's absolutely the most wonderful experience of our lives. I yearn to see her every day, and there are days when I only see her sleeping. Although I love my chosen field, it all pales very quickly as soon as I look into Hillary's baby blue eyes. We're all quite healthy and content and would love to hear from dear ones."

**Charles W. Schertz** of Pittsburgh, Pa., writes, "In December, I returned from Mt. Everest, after having been a member of the Northwest American 1988 Everest Expedition, which successfully placed Stacy Allison, the first American woman, on the summit. This was my third major Himalayan Expedition. I will be a member of the American Manaslu (26,750 ft.) Expedition in the Spring of 1990. Individuals interested in trekking in to visit our base camp in this remote area of Nepal should contact me."

**James P. Varner** of South Dartmouth, Mass., reports, "Still trying to make it in Massachusetts."

## 79

**Paul M. Burke Jr.** of Andover, Mass., writes, "I continue to practice vascular surgery in Lowell with my father, **Paul M. Burke Sr.** '49."

## 80

**Debra A. Babcock** of Barrington, R.I., updates, "After 18 months in Rhode Island, we are moving again! This time back to California. I will be in private practice of pediatrics in Los Altos. My husband, Mark, is the director of the Center for Insomnia Research at Stanford University. Our son, Aaron, is two years old and a constant source of joy. I'm going to miss the East Coast!"

**Carolann S. Najarian** of Lincoln, Mass., started the Medical Outreach for Armenians Program in her home after visiting Soviet Armenia in May 1988. She now is a liaison to government leaders.

## 81

**Thomas J. Dowling Jr.**, of Manhasset, N.Y., writes, "I entered private practice in July, 1988; associated in a five-man group practicing general orthopedics with a subspecialty in spine surgery after completing my fellowship year at the University of Toronto. On November 12, 1988, I married Rosemary."

**Carolyn L. Kinney** of Cambridge, Mass., and her husband, William Eckhardt, celebrated the birth of their first child, Douglas John Eckhardt, on November 19, 1988.

**Charles F. Pattavina** of Newport, R.I., writes, "I presently am on the faculty of the Brown University Program in Medicine and serving as associate director of the Emergency Medicine Division at Miriam Hospital in Providence. I am also the secretary-treasurer of the American College of Emergency Physicians, R.I. Chapter. I live in Newport with my wife, Angelina, and our three children."

**Michel J.C. Taupin** of Glenside, Pa., is a radiologist at Abington Memorial Hospital. He and his wife, Ellen, have two children.

## 82

**Steven Blazar** of Pawtucket, R.I., writes, "I completed a spine fellowship at the New England Baptist Hospital, Boston, in June, 1988. I joined a private, group orthopedic surgery practice in Providence. I am on staff at the Rhode Island and Miriam Hospitals. I recently became engaged and am planning a Sept. 9, 1989, wedding in Boston, at the Copley Plaza."

**Deborah Anne Silen** of Cambridge, Mass., reports, "I am working half-time at Westwood Lodge Hospital, where I did my third-year medical-student rotation in psychiatry. The rest of my time is devoted to cultivating my growing private practice in Cambridge."

## 83

**Henry W. Cheu** of San Antonio, Texas, will begin a pediatric surgery fellowship in July, 1989 at Riley Children's Hospital in Indianapolis. He and Carolyn have a cute baby girl, Maggie.

**Paul E. Kalb** of Guilford, Conn., submits, "I am happily married to Susan M. Ascher, M.D., and currently am attending Yale Law School, where I am pursuing my interest in health law and policy."

**Samuel J. Peretsman** of New York, N.Y., writes, "I am presently a surgery fellow at Memorial Sloan-Kettering Cancer Center in New York."

**Joy B. Peskin** of Chestnut Hill, Mass., reports, "I am presently doing a fellowship in Developmental and Behavioral Pediatrics at BCH/BUSM."

**Sandra H. Raymore** of Brooklyn, N.Y., contributes, "I am in private practice in internal medicine in Queens, N.Y."

## 84

**Douglas A. Conigliaro** of Ocean Springs, Miss., announces, "I got married on June 12, 1988, to Carla Gulino of Winchester, Mass. My residency was at Massachusetts General Hospital (anesthesia). I did a fellowship at MGH and Virginia Mason Clinic in Seattle, Wash. (regional anesthesia and pain management). I currently am the staff anesthesiologist (captain), U.S. Air Force Medical Center, Keesler Air Force Base, Biloxi."

**Jon B. Getz** of Cincinnati, Ohio, writes, "I am a captain in the U.S. Air Force and am entering active duty at Wilford Hall USAF Medical Center in San Antonio, Texas, as an instructor in the Department of Surgery."

## 85

**Daniel R. Fishbein** of Longmeadow, Mass., has been promoted to second vice president in Group Life and Health's Product Development Department and designated a senior officer at Mass Mutual. He is responsible for developing products for managed health-care plans.

## 86

**Karen Miller Boudreau** of Narberth, Pa., submits, "Loving Pennsylvania. I married Ken Boudreau on August 31, 1986. I will be completing my Thomas Jefferson University Hospital Family Medicine residency in June, 1989 (chief resident, 1988-89). My next stop—joining the TJUH faculty as a clinical instructor, where I will be working in two Jefferson-affiliated family practices. I am very excited."

**Ziv J. Haskal** of San Francisco, Calif., con-

### Alumni Weekend 1990 BUSM Alumni Association

May 11 and 12 in Boston  
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Annual Meeting and  
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The 57 Restaurant  
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Five-year Reunions will be  
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tributes, "I am continuing radiology at University of California-San Francisco. I love San Francisco and am looking to take a trip to Thailand and Bali soon."

**Lee H. Winter** of New York, N.Y., submits, "Things are going well, but I miss Boston. I have been appointed the chief resident in anesthesiology, Albert Einstein College of Medicine/Montefiore Medical Center."

## 87

**Jay M. Barnett** of Riverdale, N.Y., was married in March.

## 88

**Edith M. Jolin** of Columbus, Ohio, reports, "Internship is everything they said it would be and more. My family and I are learning to survive in one of America's new 'hot cities' (according to *Newsweek*) Columbus, home of the Buckeyes."

**Carl E. Rosen** of Melville, N.Y., updates, "After a medical internship at Montefiore Medical Center in New York, I will be starting an Ophthalmology residency program at Albert

Einstein College of Medicine."

**Robert D. Solomon** of Long Branch, N.J., writes, "I am almost finished with my internship at Monmouth Medical Center in Long Branch. I will be starting my radiology residency at SUNY Downstate Medical Center in Brooklyn, N.Y. I am looking forward to this very much."

(Editor's Note: This issue of *Centerscope* includes Class Notes received as of July 10, 1989.)

## Necrology

### 25

**Janice Rafuse** of Rowley, Mass., on March 13, 1989.

### 28

**Robert E. Ross** of Sandwich, Mass., on March 21, 1989.

**Samuel Segal** of Brookline, Mass., on July 3, 1989.

### 29

**Bernard J. Mintz** of New York, N.Y., on June 23, 1988.

### 31

**Americo Del Selva** of Providence, R.I., on May 14, 1989.

### 32

**Robert J. Donovan** of Marshfield, Mass., on April 21, 1989.

### 33

**Leroy Sargent Ford** of Keene, N.H., on March 26, 1989.

### 35

**Raymond G. Vinal** of Norwell, Mass., on March 5, 1989.

### 38

**Edward Gliserman** of West Logan, W.V., on Sept. 20, 1988.

**Morris Taylor** of Pittsfield, Mass., on March 12, 1989.

### 40

**Fred A. Anderson** of Norwick, Conn., on August 6, 1989.

**Morris L. Heller** of Lyme, N.H., on June 19, 1989.

### 43-A

**Kenneth H. Seagrave** of Beverly Farms, Mass., on July 31, 1989.

### 47

**Henry F. DeRoche Jr.** of Old Saybrook, Conn., on March 2, 1989.

### 52

**Leon R. Jellerson** of East Lebanon, Maine, on Jan. 29, 1988.

**Constantine J. Papastrat** of Poughkeepsie, N.Y., on Oct. 28, 1988.

### 75

**Stephen R. Preblud** of Atlanta, Ga., on July 16, 1989.



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# Boston University School of Medicine



## Continuing Medical Education

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### Course Announcements: 1989-1990

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1. **Head and Spinal Cord Injury** /November 16-17, 1989/Course Director: Joe Ordia, M.D./Boston University Medical Center, Boston, MA
2. **The Fifth Biennial Meeting for Teaching Internal Medicine** /November 29-December 1, 1989/Course Directors: Norman Levinsky, M.D., & Elaine Alpert, M.D./Copley Plaza Hotel, Boston, MA
3. **The Nazi Doctors and the Nuremberg Code: Relevance for Modern Medical Research** /December 4-5, 1989/Course Directors: Michael Grodin, M.D., & George Annas, J.D., M.P.H./Boston University, Boston, MA
4. **Uro-Oncology Update 1990** /January 13, 1990/Course Director: Richard K. Babayan, M.D./The Ritz-Carlton Hotel, Boston, MA
5. **Recent Advances in Clinical Medicine** /January 15-19, 1990/Course Director: Robert M. Levin, M.D./The Olympic Hotel, Park City, UT
6. **Advanced Trauma Life Support** /January 25-26, 1990/Course Director: Erwin F. Hirsch, M.D./Boston University Medical Center, Boston, MA
7. **Pediatrics: New Challenges for the '90s** /February 19-23, 1990/Course Director: Stephen I. Pelton, M.D./The Camino Real Hotel, Ixtapa, Mexico
8. **Sports Medicine & Orthopedic Trauma** /February 26-March 2, 1990/Course Director: Michael Corbett, M.D./Topnotch Resort, Stowe, VT
9. **Tunable Dye Laser: Workshop on Treatment of Vascular Lesions of the Skin** /March 3-4, 1990/Course Director: Oon Tian Tan, M.D./Boston University Medical Center, Boston, MA
10. **Current Clinical Pediatrics** /March 5-9, 1990/Course Director: Stephen I. Pelton, M.D./Sugarbush Inn, Warren, VT
11. **Advances in Male Infertility and Impotence** /March 16-17, 1990/Course Directors: Robert J. Krane, M.D., & Irwin Goldstein, M.D./The Ritz-Carlton Hotel, Boston, MA
12. **Behavioral Pediatrics: Clinical Problems in Primary Care** /March 16-17, 1990/Course Director: Barry Zuckerman, M.D./The Charles Hotel, Cambridge, MA
13. **Recent Advances in Diagnosis & Management of Infectious Diseases in Children** /March 31, 1990/Course Director: Jerome O. Klein, M.D./The Charles Hotel, Cambridge, MA
14. **Endoscopy for Surgeons** /April 19-21, 1990/Course Director: Joseph J. Pietrafitta, M.D./The Ritz-Carlton Hotel, Boston, MA
15. **Current Clinical Pediatrics** /April 23-27, 1990/Course Director: Stephen I. Pelton, M.D./Mariner's Inn, Hilton Head, SC
16. **Controversies in Internal Medicine** /May 7-11, 1990/Course Director: Robert M. Levin, M.D./Mariner's Inn, Hilton Head, SC
17. **Advanced Trauma Life Support** /May 24-25, 1990/Course Director: Erwin F. Hirsch, M.D./Boston University Medical Center, Boston, MA
18. **Musculoskeletal MRI for Orthopedists and Radiologists** /May 28-June 1, 1990/Course Director: Peter Franklin, M.D./Sonesta Beach Hotel, Hamilton, Bermuda
19. **Recent Advances in Clinical Medicine** /June 7-9, 1990/Course Directors: Robert M. Levin, M.D., & Leonardo C. Viril, M.D./Westin Hotel, Kansas City, MO
20. **Tunable Dye Laser: Workshop on Treatment of Vascular Lesions of the Skin** /June 23-24, 1990/Course Director: Oon Tian Tan, M.D./Boston University Medical Center, Boston, MA
21. **Endoscopic Laser Therapy** /July 26-28, 1990/Course Director: Joseph J. Pietrafitta, M.D./The Ritz-Carlton Hotel, Boston, MA
22. **Review Course & Update in Obstetrics and Gynecology** /November 5-7, 1990/Course Director: Laurence Cibley, M.D./The Ritz-Carlton Hotel, Boston, MA

**For further information, contact:** Department of Continuing Medical Education, Boston University School of Medicine, 80 E. Concord St., Boston, MA 02118. Telephone: 617 638-4605.

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