Health Sciences and Technology

Newsletter

Fall/Winter 1994

Directors' Notes:

Happy New Year!

We wish to thank all of you who remembered HST with a financial contribution this holiday season. We are extremely grateful for your support and are honored by your endorsement of our continuing efforts in biomedical research, teaching, and service. It is a great boost to us all to have this expression of commitment from our graduates!

Roger G. Mark

Michael Rosenblatt

Search for HST Co-Director Begins

Professor Roger G. Mark has announced his decision to step down as the MIT Co-Director of HST after serving in that capacity since July 1985. He will return to academic duties in teaching and research following a sabbatical leave. He is enthusiastic about the Division's unique role and accomplishments in providing superb educational opportunities for the finest medical and graduate students, and in providing a basis for research collaboration between Harvard and MIT investigators. Prof. Mark is excited and optimistic about the future evolution of HST in launching new programs, and adding new faculty members. During a time of shrinking academic resources, it is particularly important that inter-university collaborations, such as HST, create efficient mechanisms for the universities to share resources for the benefit of both. Prof. Mark looks forward to working hard "in the trenches" as an HST faculty member in the years ahead.

A committee has been formed to conduct a world-wide search to identify the next MIT Co-Director. It is co-chaired by **Prof. George Benedek** (Physics) and **Prof. Richard Cohen** (HST). The search committee solicits suggestions from interested faculty, students, and alumni regarding appropriate candidates for the Co-Director position. Communications should be sent to: Prof. Richard Cohen, Room E25-330D, MIT, Cambridge, MA 02139
Tel.: 617-253-7430, fax: 617-253-3019

Major Role of HST in Curriculum Development at HMS

The role of the academic societies at HMS has recently been expanded to include curriculum oversight and innovation. HST, which is one of the five societies, has been assigned stewardship of clerkships in medicine. This involves identifying themes relevant to internal medicine that can be emphasized and reiterated over the four-year curriculum, bringing basic science perspectives into the clinical year.

Clinical Investigator Training Program Launched by HST and Beth Israel

The current academic year saw the initiation of a new program to train physicians in clinical research, a joint enterprise by the HST Division through the Clinical Research Center at MIT and the Beth Israel Hospital. This program, which is directed by **Drs. Robert H. Rubin** and **Alan C. Moses,** admits ten fellows annually for a two-year training program. The program is supported by the pharmaceuticals manufacturer Pfizer Inc.

David E. Housman Elected to the National Academy of Sciences

David E. Housman, Ph.D., Professor of Biology at MIT, and Associate in Neurology and Genetics at MGH, was elected to membership in the National Academy of Sciences. Dr. Housman is co-director of HST-160: Molecular Biology and Genetics in Modern Medicine.

Linda G. Cima Appointed to the Karl Van Tassel CD Professorship

Earlier this year, **Linda G. Cima, Ph.D.,** was appointed to a career development professorship. Prof. Cima received her B.S. from Georgia Inst. of Tech. and her Ph.D. from U.C. Berkeley. She came to MIT in 1988 and joined the faculty in 1991. A member of the HST affiliated faculty, her research concerns materials and devices for controlling cell and tissue behavior. A major emphasis is developing synthetic polymers which interact with cells via receptor-mediated phenomena to control cell growth and migration. Her group is developing devices with microarchitectures that aid formation of natural tissue, and members have reconstructed cartilage tissue in the shape of an ear by transplanting cartilage cells embedded in such a device.

Robert H. Rubin Joins the HST Primary Faculty

We are delighted to announce that **Dr. Robert H. Rubin** has been appointed to the HST primary faculty, with a secondary HMS appointment in the Dept. of Medicine at MGH. Dr. Rubin has already had a substantial impact on HST through the clinical investigator training program noted above, and we welcome his creativity and enthusiasm in teaching and research. He is also currently directing HST-350: Pharmacology and Clinical Therapeutics.

Ann M. Graybiel Appointed to New Rosenblith Chair

Ann M. Graybiel, a neuroscientist studying brain regions involved in neurological and neuro-psychiatric disorders, has been named the first Walter A. Rosenblith Professor, occupying a new chair in the Dept. of Brain and Cognitive Sciences. Institute Prof. Emeritus and Provost Emeritus Rosenblith pioneered the use of mathematical models in the study of the brain as a biophysical information handling system. He played a central role in the development of HST during his tenure as Provost from 1971-1980. Prof. Graybiel directed HST-130: Introduction to Neuroscience, from 1986-1989.

Alan Grodzinsky Receives NIH MERIT Award for Cartilage Research

Alan Grodzinsky, Professor of Elec. Eng., Mech. Eng., and HST, has received a Method to Extend Research in Time (MERIT) Award, which "acknowledges consistent and excellent contributions to scientifc knowledge" and is "designed to provide a few outstanding investigators with the opportunity for long-term stable support," according to the NIH. His research team focuses on how biological and physical forces interact to build or degrade cartilage, to understand diseases such as osteoarthritis. A research engineer, two other staff members, graduate students, and a post-doc come from the Depts. of EE&CS, Mech. Eng., Matls. Science and Eng., Chem. Eng., and HST. Prof. Grodzinsky notes the "critically important" impact students have had on this work. "Much of the work cited by NIH has come from graduate and undergraduate thesis research". Collaborations exist with orthopaedic surgeons and scientists at MGH, Brigham & Women's Hospital, and abroad. **Scott Berkenblit, George Cheng, Minerva Garcia, Elaine Lee, Thomas Quinn, Paula Ragan, Jennifer Stinn,** and **Steven Treppo** are students in the Grodzinsky laboratory. The award lasts 10 years and may total $2 million.

Whitaker Foundation Biomedical Engineering Award For Elazer Edelman

Elazer R. Edelman, M.D., Ph.D., Helmholtz Assistant Professor of HST, was awarded a special opportunity award for a modular teaching facility as part of an enhanced Center for Biomedical Engineering on the MIT campus. A new curriculum in modern biology tailored to bioengineering students is under development, and this facility will house equipment and personnel needed to support both existing courses and new initiatives in analytical cell biology, cell and tissue engineering, and use of bioinstrumentation. The Whitaker Foundation is providing $750,000 over the next 3 years for implementation, operation, and maintenance of the educational laboratory, curriculum development, and technical teaching staff within the facility.

Research Report:

The September 23, 1994 issue of Science included two significant contributions by HST alumni. **Alice W. Flaherty, M.D., Ph.D.,** coauthored "the Basal Ganglia and Adaptive Motor Control" (with Ann Graybiel, Toshihiko Aosaki, and Minoru Kimura), analyzing the modular architecture of the basal ganglia and its resemblance to computational learning models. **Paul L. Huang, M.D., Ph.D.,** coauthored the "Effects of Cerebral Ischemia on Mice Deficient in Neuronal Nitric Oxide Synthase" (with Zhihong Huang, Nariman Panahian, Turgay Dalkara, Mark Fishman, and Michael Moskowitz), which showed that neuronal NO production exacerbates acute ischemic injury, whereas vascular NO affords protection after occlusion of the middle cerebral artery. Paul Huang also coauthored "Introduction to Electrocardiography", published by Saunders in 1993, which has been very popular nationwide.

In the November 1994 issue of Cell, **Jean E. Schaffer, M.D.,** Research Fellow at the Whitehead Institute in **Prof. Harvey F. Lodish's** laboratory, reported her discovery of the first transport protein for fatty acids in mammalian cells, providing an important tool for the study of energy metabolism of cardiac tissue in health and disease.

Clifford D. Tabin, Ph.D., asst. prof. of genetics at HMS, isolated the human equivalent of the gene, called Sonic Hedgehog, which plays a major role in development of the brain and limbs of chicks and mice. Dr. Tabin co-directs HST-160: Molecular Biology and Genetics in Medicine.

Mark McClellan, M.D., a research associate in the Dept. of Health Care Policy at HMS, coauthored a study in the September 21, 1994 issue of JAMA (with Barbara McNeil and Joseph Newhouse) that concluded that three common procedures (cardiac catheterization, angioplasty, and coronary artery bypass graft surgery) could be reduced as much as 25 percent in patients over 65 without any decrease in survival rates. The most critical aspect of treatment was the quality of care during the first 24 hours following a heart attack. Mortality rates were indeed better at hospitals with more high-tech equipment and specialized personnel, but the authors attributed better survival rates to the greater skill of the staff, as well as to better emergency systems serving them. The study was a retrospective analysis of 200,000 elderly patients who suffered their first heart attack in 1987, and their subsequent treatment over the next four years.

The October 12, 1994 issue of Technology Review gave an update on **David Edell,** HST Principal Research Scientist, in his efforts to develop the first neural prosthesis whose parts can work in humans for decades. The proposed artificial arm employs an interface consisting of wire electrodes that protrude through a silicone cup slightly larger than the diameter of the median nerve. If the researchers can demonstrate safe and reliable operation in rabbits, they plan to implant the interface in humans. Amputees will have the interface attached to the median nerve at the end of their stump below the elbow. After recovery, subjects will be tested to correlate sensations to pressures needed to perform various tasks. The next generation of neural interface will mimic additional sensations such as texture and temperature, by substituting the interface's wires with multiple silicon chips that each contain more than 100 electrodes.

A new composite bone graft material was developed at MIT by **Dr. Mohamed Attawia,** an HST postdoctoral associate. Coauthors of a paper presented at the August ACS meeting were **Dr. Cato Laurencin** and **Jessica Devin.** The new material is a calcium phosphate ceramic called hydroxy-apatite (HA), a material found in natural bone, and a biodegradable polymer, poly(lactide-co-glycolide) or PLAGA. The polymer is in the form of microspheres and acts as a scaffolding for new bone growth. Over time, the PLAGA spheres degrade, allowing new bone cells to infiltrate the material. Now at the Medical College of PA, Dr. Attawia is an assistant prof., and Dr. Laurencin is an associate prof. of orthopaedic surgery and a research prof. of chem. eng. at Drexel University.

As reported in the January 27, 1994 issue of the New England Journal of Medicine, medical physicists at MIT have found a way to interpret the subtle electrical warning signals the human heart generates when it is prone to ventricular fibrillation. This work may lead to a non-invasive diagnostic test to predict the likelihood of sudden cardiac death in adults. The MIT technology has been licensed to Cambridge Heart, Inc. of Burlington MA, which is seeking to produce such a test. **Richard J. Cohen, M.D., Ph.D.,** who directs the Harvard-MIT Center for Biomedical Engineering and who founded Cambridge Heart, led the research team at MIT. The computer algorithm measures T-wave (repolarization) alternans even when it cannot be observed by visual inspection of the electrocardiogram. Using this technology, researchers tested 83 patients known to be at risk for ventricular arrhythmia at MGH and followed them for 20 months. It was found that 81 percent of those in whom electrical alternans was detected either succombed to ventricular fibrillation or suffered a life-threatening episode of ventricular arrhythmia. Only 6 percent of those in whom electrical alternans was not present were similarly affected. The clinical study was conducted by **Dr. David S. Rosenbaum,** now of Case Western Reserve University, with an MGH-MIT team led by Cohen and **Dr. Jeremy Ruskin,** Director of Cardiac Electrophysiology at MGH. (Dr. Cohen will present a professional course as part of the MIT Summer Session: HST0.90s Cardiovascular Pathophysiology for Engineers and Scientists, June 12-16.)
Contact the Office of the Summer Session for details:
Tel. 617-253-2101, fax 617-253-8042
e-mail: summer-professional-programs@mit.edu

Student News:

Lik Mui, a 1994 M.I.T. graduate in electrical engineering and a first year HST student, has received a Marshall scholarship to study in Great Britain next year. He is among 40 selected from a nationwide pool of about 900 students recommended by their respective universities. The Marshall program was started by the British Parliament in 1953 "as a practical and enduring gesture of thanks on behalf of the British people for assistance received from the United States in the aftermath of World War II".

We congratulate the following graduates of the HST-M.D. Class of 1994 who received the following prizes and awards:

Student Research Awards Dr. Sirgay Sanger Award: **Thomas Kerrihard**; James Tolbert Shipley Prize: **Seth Karp**

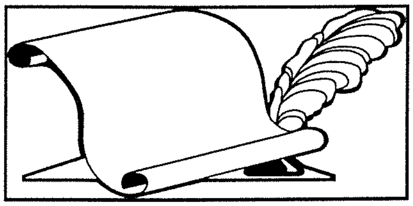
Student Community Service Awards Community Service Award: **Sara Szal**; Multiculturalism and Diversity Award: **James Oliver**

We are saddened to note that **James A. Smith,** an HST M.D. Ph.D. student, died on January 31. His family has established the James A. Smith Fund at MIT for support of an HST student working in the area of brain and cognitive science. Contributions may be made to MIT in his memory and mailed to MIT Office of the Treasurer, 238 Main Street, Suite 200, Cambridge, MA 02142.

Alumni/ae Affairs:

Dr. Walter Abelmann encourages all alumni/ae who have not returned the alumni/ae survey to do so. If you have misplaced your copy, please contact Patty Cunningham at 617-432-1738, and a replacement copy will be sent to you.

At time of publication, we are finalizing plans for a meeting of HST women students and alumnae to be held on Tuesday, February 7, 1995 at Legal Sea Foods in Kendall Square.



Alumni/ae News:

Gilbert Brodsky, M.D., is "mixing my time primarily as Director of Surgical Pathology for the Harvard Community Health Plan, together with Surgical Pathology at Brigham & Women's Hospital, and most recently also at Pathology Services, Inc. in Cambridge".

Edward J. Cheal, Ph.D., writes that he is now Director of Research for Johnson & Johnson Professional, Inc. He and his wife, Anne Roberge, M.D., had a son, Michael Cheal on October 17, 1994, their first child.

Gilbert Chu, M.D., Ph.D., was promoted last year to the rank of Associate Professor with tenure at Stanford in the Department of Medicine. Congratulations from all of us!

Elana B. Doering, Ph.D., M.D., is now a clinical/research fellow in the Univ. of Penn.'s Anesthesia Department. She spends part of each week attending and teaching residents in the operating room, and the rest studying pulmonary pathophysiology in ICU patients. "But the most wonderful time I ever had was this past spring: I took a leave of absence to volunteer for two months in Uganda, teaching anesthesia at Makerere University. It was a difficult, colorful, and extraordinary experience. Anyone who might be interested, feel free to write."

Dan J. Fintel, M.D., is an Associate Professor of Medicine at Northwestern University School of Medicine, and Director of the Coronary Care Unit at Northwestern Memorial Hospital. His research interests involve antithrombotic therapies for acute myocardial ischemia and cardiac diagnostic procedures.

Stan N. Finkelstein, M.D., is executive director of the Program on the Pharmaceutical Industry at MIT. Stan will be presenting a summer professional course 15.06s: Management for Physicians, Scientists, and Engineers in the Pharmaceutical and Biotechnology Industry, June 12-16. We congratulate Stan and his wife, Jill Benedict, on the addition to their family of Maya Francesca, their first child. (The next addition is a room for Maya, which will continue work on their home under the creative influence of Jill, who is trained in architecture.)

Gilad S. Gordon, M.D., in Boulder, CO, is currently consulting to a variety of organizations in the area of health economics, outcomes research and physician management. He is on the staff of the University of Colorado.

Edward Guo, Ph.D., holds a postdoctoral position at the University of Michigan in orthopaedics research, where his research focusses on failure mechanisms in bone tissue, and biological response to damage.

Debra R. Judelson, M.D., has created and chairs the Education Project on Coronary Heart Disease in Women for the American Medical Women's Association. The project trains physicians nationally to provide peer education on risk factor, presentation, and diagnostic testing on coronary heart disease in women.

Melvin Konner, M.D., Ph.D., appeared on the New York Times Op-Ed page on September 26, 1994, with "A Dream Deferred...Remember Life, Liberty, and Happiness?" His article advocates a single-payer approach providing universal health care. He chairs the Dept. of Anthropology at Emory University and is author of "Dear America: A Concerned Doctor Wants You to Know the Truth About Health Reform."

A. Nicholas Morse, M.D., is in his second year of OB/GYN at Johns Hopkins.

Annabelle A. Okada, M.D., sends us regards from Tokyo. After finishing her residency in ophthalmology at the Mass. Eye & Ear Infirmary in July 1992, she went to Japan on a Fulbright Foundation Fellowship as well as a grant from the Japanese Ministry of Education. She is affiliated with the Dept. of Ophthalmology at the Tokyo Medical College Hospital, where she does research and clinical work in uveitis as well as teaching medical students. She is married to a Japanese citizen, whom she met during a previous year abroad before starting her HST studies. "To my fellow alumni: please look me up if ever you're in Tokyo."

Martin R. Prince, M.D., Ph.D., has been appointed Co-Director, Division of MRI at the U. of Michigan. He was just awarded his 11th patent since beginning HST, and is "having fun developing MR Angiography techniques".

Ivan C. Rokos, M.D., is "enjoying my second year residency in Emergency Medicine at the very busy LA County/USC Medical Center. My HST thesis was published in Matrix Biology. I also got married to Ann Mohrbacher (HMS '87) in July 1994".

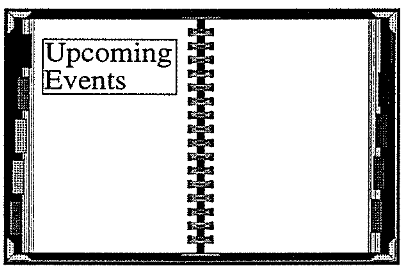
Priscilla Slanetz, M.D., MPH, spent two weeks in Washington, D.C. as an intern in government relations under the auspices of the American College of Radiology. Writing in the Newsletter of the Massachusetts Medical Society, Priscilla lauds the important contribution by professional organizations in support of research and education, as well as in the debate on health reform. She appreciated the role of staff of senators and representatives; they are key people to contact with questions and views. She writes: "Good lobbying involves developing good relationships with key office staff, who ensure an open door to influential representatives when a topic of concern is up for debate." Priscilla, a resident in Radiology at MGH, was

Council on Scientific Affairs of the American Medical Association. She married Dr. Raja A. Sayegh in October.

Joseph H. Schwartz, M.D., is in private practice of general vascular surgery in Waltham, MA, "trying to adjust to the new realities of managed care." He is involved in clinical teaching of residents and medical students at Newton-Wellesley Hospital.

Barbara L. Smith, M.D., Ph.D., assistant professor in surgery at the Harvard Medical School, has been appointed Director of the MGH Comprehensive Breast Health Center. The center aims to provide routine screening and diagnosis of lumps as well as care to women diagnosed with breast cancer. Occupying newly renovated space in Emerson Place, the center brings together physicians in medical and surgical oncology, pathology, plastic surgery, radiology, and radiation therapy, as well as nurses, social service workers, and support staff.

Thanks to everyone who updated us on their latest news! We look forward to hearing from the rest of you for the next Newsletter.....



1995 HST Forum, March 16, 1995

The 1995 HST Forum will be held at Harvard Medical School, (Carl W. Walter Amphitheater in the Medical Education Center) on **Thursday, March 16**. This annual scientific meeting, introduced in 1987, allows students to present their experimental data and interpretations to a critical audience comprised primarily of peers and faculty from the two universities. The attendance of alumni/ae and industrial sponsors adds breadth to the event, and we encourage you to spend the day with us. As previously, **Dr. Walter Abelmann** will organize a special luncheon for our alumni/ae. The meeting will begin around 12:45 p.m., and scientific presentations will follow from 1:00-5:30 p.m. There will be a poster session in the MEC Atrium until 7:00 p.m. All forum participants are invited to the Forum Dinner from 8:00-10:30 p.m. in Vanderbilt Hall. We hope that many of you will be able to attend. For further details, please contact Barbara Jaskela, 617-253-1554.

We note with gratitude the support of Abbott Laboratories, Amgen, ARIAD Pharmaceuticals, BASF Bioresearch Corporation, Hoffmann-La Roche, Glaxo, Merck Research Laboratories, Marion Merrill Dow, Pfizer, and Reed & Carnrick Pharmaceuticals for the 1995 HST Forum.

HMS Women in Medicine Symposium, March 17-18, 1995

In honor of the 50th anniversary of the admission of women to HMS, a series of events is planned for this year, beginning with a special dinner on **Friday, March 17** and a symposium on **Saturday, March 18**. On Friday evening, the speakers will include **President Neil Rudenstine** and **Dean Daniel Tosteson.** A panel will feature **Margaret Hamburg, HMS '83** (NYC Dept. of Health) and her parents **David Hamburg, M.D.** (Carnegie Foundation), and **Beatrix Hamburg, M.D.** (Grant Foundation), with **Ellen Hume,** senior fellow at the Annenberg Washington Program in Communications Studies as moderator. The Saturday symposium will include basic science studies of women's cancers, longitudinal studies of women's health, and the history of women in medicine. A panel of students and alumnae will discuss issues of concern to women physicians, scientists, and students as well as their spouses and colleagues. **Judith Rapoport, HMS '59,** Chief of the Child Psychiatry Branch at the National Institute of Mental Health, will be the keynote speaker at Saturday's luncheon. **Eleanor Shore,** Dean for Faculty Affairs and chairperson of the Women in Medicine celebration, will be contacting by letter all HMS alumnae about this weekend and other events. For further details, please contact Nancy Birne, 617-432-2345, or e-mail: nbirne@warren.med.harvard.edu

HST Technology Transfer Symposium, May 4, 1995

As noted in the last newsletter, **Joseph Bonventre, M.D., Ph.D.** and **James Tananbaum, M.D.,** are developing a symposium to discuss the commercialization of innovative concepts and research in biotechnology, medical devices, and health care services. This meeting will be held at Harvard Medical School in Ampitheatre D, on **Thursday, May 4,** and will feature speakers from industry and venture capital groups, the licensing offices at Harvard University, HMS and MIT, and faculty who have successfully brought their inventions to the marketplace. Topics will include the creation of healthcare-related companies, experiences at the academic-industry interface, the regulatory climate, and future opportunities. It is expected that the meeting will take place from 10:00 a.m. - 5:00 p.m. The audience will consist primarily of faculty and students of HMS and MIT as well as trainees at the Harvard affiliated hospitals. We welcome any alumni/ae who are interested in attending. Please contact Dr. Bonventre at 617-726-3770.

25th Anniversary Celebration for HST, December 1, 1995

We are planning a special one-day academic symposium for Friday, December 1, 1995, honoring the achievements of the Division and its distinguished graduates. Please save the date!

HST Students admitted Fall 1994

M.D.	Institution	Major
Jodie Babitt	University of Pennsylvania	Biology
Scott Boyd	U. Manitoba/Oxford	Chemistry/Microbiology
Todd Brennan	UCLA	Biochemistry
Michelle Bush	MIT	Biology
Alexandre Carter	Brandeis	Biology/Neuroscience
Lisa Catapano	Dartmouth	Physics
Howard Chang	Harvard	Biochemistry
Sharon Chang	UC, Davis	Environmental Toxicology
David Chen	Johns Hopkins	Chemistry/Economics
Steven Chen	Johns Hopkins	Chemistry
Wing Cheung	CA Tech	Biology
Kenji Fujita	Harvard	Biochemistry
Neil Ghiso	U. Mich., Ann Arbor/Stanford	Electrical Engineering
Alexander Guimaraes	U. Mich., Ann Arbor/MIT	Nuclear Engineering
Erling Ho	MIT	Physics
Ljubomir Ilic	MIT	Physics
Ravi Joshi	Johns Hopkins	Biology
Harish Lacamwasam	MIT	Mechanical Engineering
Chiang Li	Nanjing Railway/Peking Union	Hygiene/Pharmacology
Udaya Liyanage	MIT	Biology
Ming Lu	USC&TecChin/Baylor	Molecular Biology/Cell Biology
Jacquin Niles	MIT	Chemistry
Paul Subroto	Yale	Molecular Biology/Biochemistry
Rinaa Punglia	Stanford	Biology
Rachel Rohde	U. Mich.	Cellular/Molecular Biology/Chemistry
Marta Taylor	Harvard	Chemistry
Kenneth Tsai	Yale	Applied Physics
Christine Tsien	MIT	Computer Science & Engineering
Kai Xia	Wuhan U./Capital Med./HMS	Virology/Tumor Virology
Howard Yeon	Harvard	Biochemistry

MEMP

Antony Aljuri	Universität Karlsruhe	Electrical Engineering
Douglas Daum	Brigham Young U.	Nuclear Engineering
Karen Fu	MIT	Chemical Engineering
Jennifer Hartt	Carnegie Mellon U.	Chemistry
James Hong	Purdue	Mechanical Engineering
Adam Hoyhtya	Johns Hopkins	Electrical Engineering
Lik Mui	MIT	Electrical Engineering
Paula Ragan	Tufts	Mechanical Engineering
Michael Russo	Columbia	Mechanical Engineering
Grant Schaffner	MIT	Aero/Astro
David Sha	UC, Berkeley	Mechanical Engineering
Jun Wu	Peking University	Physics
Ruilin Zhao	Xi'an Jiaotong University	Electrical Engineering

Speech and Hearing

Isaac Graf	Yeshiva University	Electrical Engineering
Benjamin Hammond	Harvard	Chemistry
Michael Harms	Rice University	Electrical Engineering
Joyce Manzella	U. Rhode Island/Northeastern U.	Electrical Engineering/Speech & Hearing
Mark Oster	Valparaiso University	Computer Engineering
Diane Ronan	MIT	Electrical Engineering
Janet Slifka	University of Dayton	Electrical Engineering

Radiological Sciences

Joelle Dennie	University of Toronto	Nuclear Engineering
Seung-Schik Yoo	Johns Hopkins	Nuclear Engineering
Li Zhang	Peking University	Nuclear Engineering

HST Internships 1994

	Internship/Residency	Hospital/Location	
Joseph Baraga	Transitional/ Radiology	Hennepin County MC	Minneapolis, MN
Harold Burstein	Internal Medicine	MGH	Boston, MA
Douglas Chin	Preliminary Surgery	NYU Medical Center	New York, NY
Richard Chin	Internal Medicine	Barnes Hospital	St. Louis, MO
Long Dang	Neurosurgery	U. of Minn. Hospital	Minneapolis, MN
Alice Flaherty	Preliminary Medicine/Neurology	MGH	Boston, MA
Robert Gipe	Transitional	Virginia Mason Hospital	Seattle, WA
	Anesthesiology	U. Wash. Affiliated Hosps.	Seattle, WA
Theresa Hadlock	General Surgery	The U. of Chicago Hosps.	Chicago, IL
William Hahn	Internal Medicine	MGH	Boston, MA
Kenneth Hu	Preliminary Medicine	Cedars-Sinai MC	Los Angeles, CA
	Radiation Oncology	Memorial Sloan-Kettering	New York, NY
Rebecca Hung	Internal Medicine	Brigham & Women's	Boston, MA
Eugene Kaji	Internal Medicine	Beth Israel	Boston, MA
Seth Karp	General Surgery	Brigham & Women's	Boston, MA
Thomas Kerrihard	Transitional/Psychiatry	Cambridge Hospital	Cambridge, MA
Young-Jo Kim	Orthopaedic Surgery	Harvard Comb. Ortho. Prgm	Boston, MA
Betty Lee	Preliminary Surgery	UCSF	San Francisco, CA
Vincent Li	Preliminary Medicine	MGH	Boston, MA
Melinda Maggard	General Surgery	UCMC	Los Angeles, CA
Adel Malek	Neurosurgery	Brigham & Women's	Boston, MA
Terence McGovern	Internal Medicine	New England Deaconess	Boston, MA
Benjamin Medoff	Internal Medicine	MGH	Boston, MA
Elizabeth Murphy	Internal Medicine	UCSF	San Francisco, CA
Anju Nohria	Internal Medicine	Yale-New Haven Hospital	New Haven, CT
Wendell Ocasio	General Surgery	NYU Medical Center	New York, NY
James Oliver	Internal Medicine	Walter Reed Army Hospital	Washington, D.C.
Robert Satcher	Orthopaedic Surgery	UCSF	San Francisco, CA
Steven Stufflebeam	Preliminary Medicine	Kaiser Permanente	Oakland, CA
	Radiology	UCSF	San Francisco, CA
Sara Szal	OB/GYN	UCSF	San Francisco, CA
John Wilson	Preliminary Medicine	New England Deaconess	Boston, MA
	Anesthesia	Stanford University Hospital	Stanford, CA
Mary Wu	Transitional	Virginia Mason Hospital	Seattle, WA
	Ophthalmology	Mass. Eye & Ear Infirmary	Boston, MA
Henry Zhu	General Surgery	Hospital of the U. of PA	Philadelphia, PA

Show your colors! New **HST sweatshirts** are available in Large, XLarge, and XXLarge for a more comfortable fit. They are a deep burgundy cotton blend with white printing. Front design: HMS and MIT seals, with "HST" printed below (on upper right side). Back design: "Harvard-MIT Division of Health Sciences and Technology", in large letters (across shoulder blades). ******************* **Fashionable and warm, a great value at $20.00!** ******************* You can purchase new HST sweatshirts at the MIT-HST office, E25-510, or at the HMS-HST office, MEC-213.

We also have HST ties in navy and burgundy, available for gentlemen (traditional) and ladies (bow ties), at $15.00. A limited number of the original HST sweatshirts and T-shirts in Small, Medium, and children's sizes are also available at reduced prices. For information about these items, please call Sally at 258-7085. (Sally can arrange to have your purchase shipped to you, for the incremental cost of packaging and mailing. Please contact her regarding the exact amount that will be necessary in addition to the purchase price.)

The response has been overwhelming!! Our thanks to all of you who contacted us with the whereabouts of our HST alumni. Any leads regarding the following missing persons would be greatly appreciated:

Please help us to locate the following alumni (listed by year of graduation):

1975	David W. Kurtz
1976	Daniel J. Knighton
1977	Richard N. Gray
1978	William Roy Smith, Jr.
	Mitchell R. Swartz
1979	Barry N. Swerdlow
1980	Robert L. Redner
1981	Cavelle M. Kelsick
1982	Sundeep Khosla
	Pamela A. Taylor
	Matthew J. Narret
1984	Bengt L.W. Ivarsson
1988	Jay Chung
	John C. Eagon
	William Rogers
1989	Peter Diamandis
	Arielle Bienenstock Kauvar
	Maria Elena Lara
1990	Diane Lianging Chen
	Roger J. Hajjar
	Jennifer Green-Nastelin
	Anya Hurlburt
1991	Malvina B. Eydelman
	Edmundo Marroquin
1992	Sterling C. Johnston
	Ben Lam Nguyen
	Dale S. Reynolds
1993	Peter Mark Li

Health Sciences and Technology

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