

July 2008

Global Medical Knowledge, Inc.

www.globalmedicalknowledge.org

Press Kit

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About

Global Medical Knowledge, Inc. (GMK) is a 501(c)(3) non-profit corporation established in January 2007 to bridge the medical knowledge gap between developed and developing nations. GMK uses technology to improve access to current, actionable medical information in developing countries and to build collaborative partnerships among medical educators around the world.

GMK employs a new form of capacity building that focuses on technology-based knowledge sharing. By empowering healthcare providers and educators, GMK seeks to make a positive contribution to improving and expanding high-quality healthcare in developing countries by complementing, enhancing, and connecting medical training.

With the continuing dispersion of technological infrastructure,¹ even to the poorest regions, global medical knowledge transfer is becoming more and more viable.

Premise

In Jan-Feb 2003, GMK Founder Michael Maltese traveled to South Africa to coordinate logistics for an international academic conference hosted by Princeton University. While there, he traveled to Malawi, where he visited the College of Medicine (COM) in Blantyre, Malawi's only medical school. In a country of approximately 12 million, there were only 252 registered physicians.² Moreover, only half were trained in Malawi. Dr. Robin Broadhead, principal of the medical school, invited Maltese to audit the state of the college's IT resources, during which he noticed that donated computers were not being fully utilized and that outdated textbooks were used in course instruction. Seeing the opportunity to update the informational resources at COM, Maltese began to advocate on behalf of COM. In June 2003, Maltese successfully negotiated with Oxford University to offer their distance education program in immunology for free³ to COM's chief of epidemiology, which enabled him to teach his students using the most current research on the diagnosis and treatment of tropical diseases. This deal was brokered through email over the course of several weeks, which led Maltese to realize that it is possible to persuade major universities to share educational resources with needy medical schools in developing countries. Moreover, it could be done cheaply and through the Internet.

High-quality medical content already exists and is digitized, however what is needed is an organization to facilitate connections between content providers and medical institutions in developing countries. Additional benefits include *new global partnerships* emerging from increased interaction among physicians and medical educators across the globe and *greater healthcare capacity* in countries where the brain drain has exacerbated an already severe shortage in trained medical staff.⁴

GMK was founded to meet these challenges and endeavors to learn about medical training needs in developing countries and formulate technology-based solutions.

¹ See: Barbara Aronson. Improving Online Access to Medical Information for Low-Income Countries. *New England Journal of Medicine*. 350(10). 4 March 2004. 968. According to Economist Intelligence Unit (EIU)'s 2007 e-readiness rankings, Asian and African nations are catching up with big net users such as Denmark. *BBC News*. Global net use makes rapid rise. 27 April 2007.

² Adamson S. Muula. Nationality and country of training of medical doctors in Malawi. *African Health Sciences* 6(2) June 2006. 118.

³ International students enrolled in the course were charged approximately \$1000 for tuition and materials.

⁴ See: Leana Wen. Where Are the Doctors? *The New York Times On The Ground Blog*. 25 June 2007.

Approach

Apply innovative technologies to enhance global health knowledge sharing.

Target the health gap between rich and poor, and between developed nations and developing nations, by connecting people in a global network.

Employ web-based technologies to streamline the transfer of current, region-specific medical information to medical training institutions in developing countries.

Develop a resource-sharing infrastructure that will enable individuals as well as international health organizations to deliver a greater collaborative impact.

Current Projects

Building a Network: Organizing a collaborative network of medical training institutions and educators around the world that will provide a forum for the exchange of medical information and ideas.

Creating an e-Medical Resource: Compiling current electronic health resources via a web portal to complement medical training in developing countries.

Timeline

January <u>2007</u>	Global Medical Knowledge, Inc. (GMK) established in Massachusetts as a non-profit corporation
Feb - April	Advisory Board of prominent experts formed
May	GMK holds its first Board of Directors meeting in Cambridge, MA
June	2007 Wharton MBA Jeremy Greenberg, New Sector Summer Consultant, joins GMK
July	2007 Harvard grad Kristen Lynch joins GMK as a Project Coordinator for the summer
August	GMK receives 501(c)(3), tax-exempt status from the U.S. Internal Revenue Service GMK featured on BBC Radio's World Business Daily (9 August)
Sept-Dec	Adrienne E. Shapiro of Johns Hopkins University joins the GMK Board of Directors GMK works with the University of Pennsylvania on an NIH-sponsored project to improve accessibility to AIDS research in Malawi
Jan – April <u>2008</u>	GMK works with a team of Harvard Business School MBA students to enhance program offerings GMK works with a team of Wharton School MBA students on a project in Malawi
May – July	Sun Mi Yoo and Trent Ostler of Harvard Medical School and Children's Hospital join GMK Dr. Chetan Seshadri (GMK Advisor) travels to Malawi to meet with physicians, educators, NGOs, etc. With UPENN, GMK launches Malawi Social Science & HIV/AIDS (MaSoSHA) Research Database Stephanie Koh joins GMK as a New Sector Summer Fellow

Board of Directors (To learn more about GMK Directors, please see our website)

Michael F. Maltese, President

Alexandra Delano

Adrienne E. Shapiro

Kerry Bowie, Vice President

Teun Dekker, Ph.D.

Steven J. Simons, Esq.

Eileen Yang, Treasurer

Afreen Khan, D.O.

Advisory Board (To learn more about GMK Advisors, please see our website)

Marcia Castro, Ph.D.

Assistant Professor of Demography
Harvard School of Public Health

Barrett Hazeltine, Ph.D.

Professor Emeritus of Engineering
Brown University

Pauline E. Peters, Ph.D.

Lecturer in Public Policy
Harvard University

Chetan Seshadri, M.D.

Fellow in Infectious Diseases
Harvard Medical School

Susan Cotts Watkins, Ph.D.

Professor of Sociology
University of Pennsylvania










To contribute a donation, expertise, or time, please visit our website:

www.globalmedicalknowledge.org

To contact us, please email:

secretary@globalmedicalknowledge.org

EXPANDED TIMELINE

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	Adrienne E. Shapiro of Johns Hopkins University joins the GMK Board of Directors
Sept - Dec	GMK works with the University of Pennsylvania on an NIH-sponsored project to produce a website that will centralize HIV/AIDS research in Malawi to ensure that researchers build on, rather than duplicate, previous research.  
	GMK works with a team of Harvard Business School MBA students, through the Volunteer Consulting Program, to refine and enhance program offerings. 
	GMK creates a presence on Facebook, the leading social-networking website. 
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BIOGRAPHIES | BOARD OF DIRECTORS**Michael F. Maltese (Founder and President)**

Michael F. Maltese is currently Managing Director of the Legatum Center for Development and Entrepreneurship at MIT, where held prior appointments as visiting scholar and lecturer. Previously, Michael held positions at the Federal Reserve Bank of New York, Fair Isaac Corporation, and Princeton University. In addition, Michael served as a co-investigator on a World Health Organisation (WHO) project that examined the effects of water development projects on select tropical diseases. He has published in the Osler Medical Journal (Johns Hopkins Medical School), British Medical Journal, Acta Tropica, and the American Journal of Tropical Medicine and Hygiene. Michael studied government at Harvard and holds both an advanced undergraduate diploma in history and master's degree in law from Oxford, where he served on the law review editorial board and played baseball. Michael's interests include global health, entrepreneurship, economic development, innovative technologies, international relations, education strategies, and enhancing connectivity.

Kerry Bowie (Vice President)

Kerry Bowie is currently Special Assistant to the Undersecretary for Environment, Executive Office of Energy & Environmental Affairs, Commonwealth of Massachusetts. Kerry is a recent M.B.A. graduate of MIT's Sloan School of Management where he was a recipient of the Seley Achievement Award. He spent the eight years prior to business school at Texas Instruments in Dallas on various Facilities/ Environmental, Safety, and Health roles supporting semiconductor manufacturing. Kerry holds masters and bachelors degrees in Environmental Engineering from the University of Michigan, Ann Arbor, and the Massachusetts Institute of Technology, respectively. Kerry enjoys writing, cooking, and traveling internationally, and his interests include renewable energy, environmental policy, and international & urban development. Bowie is married to his college sweetheart, Sherri-Ann, who is a physician-scientist at the Massachusetts General Hospital.

Eileen Yang [Treasurer] is currently a program manager at New Sector Alliance in Boston, MA. Prior to joining New Sector, Eileen worked within the strategy consulting practice of a management consulting company, focused on healthcare and pharmaceutical consulting, and engaged on projects that ranged from competitor analysis, relationship marketing, and market entry assessment strategy. Eileen has worked with a nonprofit organization that provides free one-on-one or small-group English tutoring to immigrants in the community. The program offers several levels of instruction depending on each student's needs while arranging educational field trips and publishes a collection of the students' works. Eileen graduated from Yale University with a B.A. in Political Science.

Teun Dekker, Ph.D., is currently an Assistant Professor (Politics and Philosophy) at University College Maastricht. He completed his Ph.D. at Oxford University, and has continued his research at Yale University. His research interests lie in the field of distributive justice, and in particular the study of the concept of desert. In addition to his research, Teun is passionate about innovation and reform in Higher Education, and is a dedicated believer in the liberal arts tradition of education, which he is currently promoting in the Netherlands.

GMK Board of Directors (Continued)

Alexandra Delano is a Ph.D. candidate in international relations at Oxford University, where she also obtained her master's degree. After completing her B.A. in international relations at El Colegio de Mexico (Mexico City) in 2002, she was a 1-year Fox Fellow at Yale University, where she conducted research on Mexican and US migration policies. Her main research interests are Mexico-US relations, Mexican migration to the US, migration politics and State-diaspora relations. Her work has been published in Mexico, the US and the UK. She has also collaborated with the Institute of Mexicans Abroad and the Mexican Consulate in New York in projects related to Mexican migration.

Afreen Khan, D.O., is chief resident physician in the Family Practice department at Overlook hospital in Summit, New Jersey. She studied at Rutgers and earned her medical degree from the Kirksville College of Osteopathic Medicine in 2005. Her areas of interest include women's health and preventative medicine.

Adrienne E. Shapiro is an M.D.-Ph.D. student at the Johns Hopkins School of Medicine and the Bloomberg School of Public Health, where she is currently working on a Ph.D. in infectious disease epidemiology. Prior to medical school, she spent two years as a predoctoral fellow with Dr. Anne Goldfeld (Harvard Medical School) and the Cambodian Health Committee, where her projects included work with HIV/ AIDS and tuberculosis treatment programs with an integrated microfinance component, development of a pediatric HIV center in Phnom Penh, and both basic and clinical research. She holds a degree in biochemistry from Harvard and an M.Sc. in Control of Infectious Diseases from the London School of Hygiene & Tropical Medicine. Her thesis research focused on malaria and helminth co-infection in Uganda. In addition to infectious diseases, Adrienne's interests include women's sexual health and health and education disparities both domestically and internationally.

Steven J. Simons, Esq., is a retired partner of Ropes & Gray, Boston, MA, where he represented non-profit and governmental entities in tax-exempt financings and other matters. Steven joined Ropes & Gray in 1974 and worked in the firm's public finance group until his retirement in 2004. He supervised the firm's tax-exempt revenue bond activity and worked on over 350 transactions as bond counsel, aggregating over \$2.5 billion in total amount. He has participated in numerous credit-enhanced transactions, including transactions supported by letters of credit, bond insurance, and third-party guarantors. Steven served as bond counsel throughout New England in financings for bonds; revenue bonds; revenue bonds for educational institutions, including non-profit independent primary and secondary schools and colleges and universities; social service agencies; and health care facilities, including nursing homes and assisted and independent living facilities. Steve also served as bond counsel for "small issue" industrial development bonds and bonds for non-profit research institutions. He also counselled various borrowers, purchasers, and underwriters of tax-exempt and taxable revenue bonds. In addition, Steven is an active member in Harvard Law School alumni activities, chairing several reunions for the class of 1972. He holds undergraduate and law degrees from Harvard.

BIOGRAPHIES | ADVISORY BOARD

Stephanie Koh (Summer Fellow, New Sector Alliance) is an undergraduate at Washington University in St. Louis majoring in Anthropology. Her interests in social justice and capacity building led her to GMK, where she is a 2008 Summer Fellow with New Sector Alliance. Since entering college, Steph has studied abroad in Eastern Europe/Central Asia, worked at a human rights nonprofit organization, and led various community service initiatives on campus. Other hobbies of hers include cross-cultural learning and exchange, reading, and dancing the tango. As a rising junior, she will be spending next year abroad in London.

Trent Ostler (Technical Consultant) is currently a bioinformatics specialist in the Gygi lab at Harvard Medical School. He graduated from Brigham Young University with degrees in Bioinformatics and Russian. Trent is interested in the internet, and the role of technology in driving useful innovations for society. He plans to attend law school in the fall of 2008 at Franklin Pierce NH. Some of his hobbies include camping, running, swing dancing, and blogging.

Sun Mi Yoo (Global Relations Coordinator) is a member of the Harvard Medical School class of 2012. Sun is currently involved in a research internship with Dr. Randolph Watnick at the Children's Hospital Boston (Harvard Medical School) where she is conducting angiogenesis cancer research. She is working on studying a novel inhibitor of tumor metastasis and her team's work is currently pending publication in a well-known research journal. She received her Bachelor of Science in Brain and Cognitive Sciences at the Massachusetts Institute of Technology and received the Hans-Leukas Teuber Award for Outstanding Academics and the Brain and Cognitive Sciences Research Award. While at MIT, she conducted psycholinguistics research and served as the Laboratory Manager for the Wexler Laboratory for four years. She was also involved in the leadership of various health policy and medical organizations on campus. Her interests lie in improving healthcare delivery to underserved populations nationally, as well as globally.

Former GMK Fellows

Kristen Lynch (2007) graduated from Harvard College in June 2007 with an honors degree in History and Science and a certificate in Health Policy. In 2006, she spent five months in Kenya and Tanzania conducting HIV/AIDS anthropology research with girls aged 10-16. While in East Africa, Kristen initiated a traveling voluntary counselling and testing (VCT) program, conducted thesis research, and picked up Swahili. At Harvard, Kristen was an All-American Athlete and member of the Varsity Sailing Team. She also plays bassoon, and has performed concerts in facilities around the world. Her other hobbies include skiing, cooking, and backpacking.

Jeremy Greenberg (2007) received his MBA from The Wharton School of the University of Pennsylvania in 2007 and currently works at Boston Consulting Group. At Wharton, he was a project manager for Wharton Community Consultants and served as a visiting board member for The Enterprise Center, a nonprofit organization that promotes minority entrepreneurship. Jeremy also participated in Penn's annual "Philly Fight Night" charity boxing event where he learned that boxing is not his forte. He will join The Boston Consulting Group's New York office in July 2007 as a management consultant. Prior to business school, Jeremy worked for Capital One Financial for six years where he developed and managed a new installment lending business unit. He graduated from Brandeis University with a B.A. in Economics and Philosophy. Jeremy enjoys oil painting, running, poker and basketball.

BIOGRAPHIES | ADVISORY BOARD**Marcia Castro, Ph.D.**

Assistant Professor of Demography
Department of Population and International Health
Harvard School of Public Health

Marcia Castro is an assistant professor of Demography at the Department of Population and International Health at the Harvard School of Public Health. After receiving her Ph.D. in Demography from Princeton University, Castro was a postdoctoral research fellow at the Office of Population Research and the Center for Health and Wellbeing at Princeton for two years. In 2005, she took a position as an Assistant Professor in the Department of Geography at the University of South Carolina. Her areas of research interests are in population dynamics and demographic methods, mortality and morbidity, identification of social, biological, and environmental risks associated with vector-borne diseases in the tropics, malaria transmission and control, spatial methods applied to social sciences, and Amazon frontier expansion. Castro is currently conducting research in Brazilian Amazon, in Tanzania and in Ghana.

Barrett Hazeltine, Ph.D.

Professor Emeritus of Engineering
Associate Dean Emeritus of the College
Brown University

Barrett Hazeltine is now Professor Emeritus but continues to teach at Brown. In 1991-1992 he held the Robert Foster Cherry Chair for Distinguished Teaching at Baylor University. From 1972 to 1992 he was also Associate Dean of the College at Brown. His teaching and research interests are in engineering management, technology planning especially in developing countries, teaching of technology for Liberal Arts students, and digital computers. He is a graduate of Princeton University—BSE - 1953, MSE - 1956 and the University of Michigan—Ph.D. - 1962. He has taught at the University of Zambia in 1970 and 1976, at the University of Malawi in 1980-81, 1983-84, and 1988-89 at the University of Botswana in 1993, and Africa University in Zimbabwe. Other foreign countries in which he has done teaching or consulting are Bangladesh, Indonesia, Nigeria, South Africa, The Philippines, Taiwan and Thailand. In 1965 he was with the Space and Information Systems Division of Raytheon Corporation as a participant in the ASEE Residencies in Engineering Practice Program. He has consulted for several engineering companies and for the Rhode Island Public Utilities Commission, the New Jersey Department of Higher Education and the United States Naval Academy and has been involved in several projects dealing with secondary school science teaching. At Brown he presently teaches introductory management, managerial decision-making, and appropriate technology. In the past he has taught several different Electrical Engineering courses. He was responsible for the program in Organizational Behavior and Management.

He received awards for teaching from thirteen senior classes at Brown, 1972 to 1984, and 1990. In 1985 the award was named after him. He has also received awards from the ASEE, Providence Engineering Society and the New York Brown Club. In May 1987, he received an honorary Sc.D. from the State University of New York in Stony Brook. He was a Fulbright lecturer in 1988-89 and 1993. He has written papers on digital logic, technology transfer, and engineering education, a textbook on electronic circuit design and a textbook on small-scale technologies.

GMK Advisory Board (Continued)**Pauline E. Peters, Ph.D.**

Lecturer in Public Policy, John F. Kennedy School of Government
Senior Lecturer, Department of Anthropology
Harvard University

Pauline E. Peters, Lecturer in Public Policy at the Kennedy School and Senior Lecturer in the Department of Anthropology, Harvard University, is a social anthropologist whose research concentrates on the processes of agrarian transformation, particularly commercialization, land tenure, property systems, natural resource management, family organization, gender relations, poverty, and social differentiation. She has extensive field research experience in Southern and East-Central Africa. Peters joined the Harvard Institute for International Development in 1982, where she became a Fellow. Peters joined the Kennedy School in 2000. Her publications include *Dividing the Commons: Politics, Policy and Culture in Botswana* and *Development Encounters: Sites of Participation and Knowledge*, as well as numerous papers and book chapters. Dr. Peters earned her Ph.D. in Social Anthropology at Boston University.

Chetan Seshadri, M.D.

Fellow in Infectious Diseases
Harvard Medical School
Massachusetts General Hospital and Brigham & Women's Hospital

Chetan Seshadri received his M.D. degree from UMDNJ-New Jersey Medical School. He completed his residency training in Internal Medicine at Duke University Medical Center at which time he worked in Tanzania conducting research into the diagnosis of tuberculosis in HIV co-infected patients. Subsequently, he joined *Medecins sans Frontieres* and helped manage an antiretroviral rollout program in Malawi. He is currently engaged in post-graduate training in infectious diseases. His research interests include developing new diagnostics for tuberculosis, and improving the care of patients in resource poor settings.

Susan Cotts Watkins, Ph.D.

Professor of Sociology, University of Pennsylvania
Visiting Research Scientist, University of California-Los Angeles

Susan Cotts Watkins is Professor, Department of Sociology, University of Pennsylvania. She came to Penn in 1982, after receiving a Ph.D. in Sociology from Princeton University in 1980 and teaching at Yale University from 1979-1982. She received her undergraduate degree (high honors) from Swarthmore College in 1960. She has received various honors including fellowships at the Institute for Advanced Study in Princeton and the Center for Advanced Studies in the Behavioral and Social Sciences, president of the Social Science History Association and vice-president of the Population Association of America, the Otis Dudley Duncan Award for distinguished scholarship in social demography. Her primary research interests have been in fertility declines: in western Europe over the period from 1870 to 1960, in the U.S. at the beginning of the 20th century, and in developing countries, with particular attention to the cultural contexts of fertility change and to social networks in the spread of new cultural models of reproduction. Since the mid-1990s her research has focused on sub-Saharan Africa. She has been principal investigator for two longitudinal projects, one in Kenya and one in Malawi, with support from The Rockefeller Foundation, USAID and NIH. These projects have collected household survey data and qualitative data on the role of social networks in fertility change and in local responses to the AIDS epidemic. All of this work has used both quantitative and qualitative data.