

OGAN GUREL MD MPhil

I am Distinguished Invited Professor (Management of Innovation) at DGIST (Daegu Gyeongbuk Institute of Science & Technology) as well as Founder & CEO of NovumWaves, a new venture advancing biomedical terahertz applications, and also hold additional academic appointments as Honorary Fellow at the University of Melbourne and Visiting Professor at the Libera Accademia Belle Arti (Brescia, Italy). I also serve as Chief Medical Officer (Acting) at Nessa Hearing (Singapore) and Chair of the Advisory Board for Posture360 (Seoul). Previously, I was Chief Innovation Officer at Campus D, a Seoul-



-based startup incubator/Fab Lab and served over four years as a Director in the CTO office (MOT & Open Innovation groups) at the Samsung Advanced Institute of Technology (SAIT). My over 30 years experience in healthcare spans multiple sectors:



biomedical science, clinical medicine, strategy consulting, business development, executive management, marketing, and R&D, with direct expertise in medical devices, mobile health, healthcare IT, and medical imaging. Prior to surgical training at the Massachusetts General Hospital, I obtained an M.D. *Alpha Omega Alpha* from Columbia University, also doing graduate work in structural biology and earned a Bachelor's in Biochemical Sciences *cum laude* from Harvard College. Authoring over 15 academic papers and conference proceedings and co-inventor on three patents, I have given keynote addresses and other speeches at business and scientific conferences and seminars worldwide.



ACADEMIC & SCIENTIFIC My research focuses on protein electrostatics as applied to terahertz medicine as a basis for novel diagnosis and therapies. While at **Harvard University**, in the research group of Prof. Martin Karplus (2013 Nobel Prize in Chemistry), I conducted research on DNA structure with Dr. Michael Weiss combining molecular dynamics simulations with NMR data. After graduating, I served as Visiting Researcher at the **Institut Laue-Langevin (ILL)** in Grenoble conducting neutron diffraction-based analyses of bacteriorhodopsin membrane protein structure with Dr. Giuseppe Zaccai. I also earned an M.Phil degree in Biochemistry & Molecular Biophysics from **Columbia University** where my graduate research involved x-ray crystallographic structural studies of cytokines in the laboratory of Prof. Wayne Hendrickson at which time I won honorable mention for the **American Crystallographic Association (ACA)** Linus Pauling Poster Prize. I also conducted research in computer science (microprocessor software development systems), winning 3rd place in the national **Westinghouse (Intel) Science Talent Search**, followed by robotics research at the **IBM T.J. Watson Research Center** (with Dr. Russell Taylor) and at **Harvard's Aiken Computation Laboratory** (with Prof. Thomas E. Cheatham). I have taught a variety of subjects—cellular and molecular biology, neuroanatomy, bioinformatics, mathematical modeling, technology marketing, fundamentals of innovation—at the **Columbia University College of Physicians & Surgeons**, **Harvard Medical School**, **Roosevelt University**, and **DGIST**. I am currently Distinguished Invited Professor at **DGIST** with other appointments as Honorary Fellow at the **University of Melbourne**, Visiting Professor at the **Libera Accademia Belle Arti (Brescia)** and previously as Adjunct Associate Professor of Bioengineering at the **University of Illinois–Chicago**. I was Editor-in-Chief of Premedical Programs at Gunner Training (now **Firecracker**) leading a team developing a next-generation (adaptive learning) MCAT prep system. Most recently, at **SAHST (Samsung Medical Center)**, **Singapore-Stanford Biodesign (A*Star)**, **National University of Singapore (NUS)**, **LABA (Brescia)**, **ESSEC Business School**, and **Auckland University of Technology (AUT)**, I have taught the Mini-MD, an intensive, comprehensive overview of medicine. I have presented research seminars at institutions worldwide including the **Korea Atomic Energy Research Institute (KAERI)**, **Ohio State University**, **Electronics and Telecommunications Research Institute (ETRI)**, **University of Southampton (Optoelectronics Research Centre)**, **Okinawa Institute of Science & Technology (OIST)**, **Nanyang Technological University (NTU)**, **Oxford University**, the **University of Bristol**, the **University of Melbourne**, **KAIST**, **Intellectual Ventures**, **NASA**, the **University of Texas – Dallas**, **Intellectual Ventures**, **Columbia University**, the **National University of Singapore (NUS)**, and many others. My research has been published in the peer-reviewed scientific literature (*European Molecular Biology Organization (EMBO) Journal*, the *Journal of Molecular Biology*, *Small*, *Lab Chip*, *IEEE Transactions on Terahertz Science and Technology*, *Analytical Chemistry*, and *The Journal of Diabetes Science & Technology*).

BUSINESS I am the Founder and Chief Executive Officer of **NovumWaves, Ltd.**, a new venture focusing on advancing biomedical terahertz applications. Previously, as Chief Innovation Officer at **Campus D** and Senior Advisor for Innovation at **DRB Holdings**, I supported the startup portfolio and existing business units in all things related to innovation as well as new product and service initiatives, assisting also with strategy, idea generation, and outside partnerships with funding sources and research institutions. While at the **Samsung Advanced Institute of Technology (SAIT)**, I participated in a wide range of projects including developing **Samsung's** healthcare technology strategy in the fields of medical imaging, robotics, neuromorphic computing, mobile healthcare, and new medicines. I also worked in technology sourcing and sensing as well as supporting broader company-wide sales and marketing efforts in healthcare. Previously at the **Aesis Group**, I served as Chief Executive Officer at **Duravest, Inc**—a publicly traded holding company focusing on convergent medical technologies. As VP and Medical Director at **Sg2, LLC** – a leading healthcare intelligence think-tank and consultancy serving hospitals and health systems – I led research teams providing thought leadership on topics such as, Surgical Services, Cancer Care, Cardiovascular Services, Procedure Centers, Imaging, Outpatient Care, Neurosciences & Orthopedics, Payment & Finance, ICU, Emergency Depts, Hospital of the Future, Diabetes, and Asthma.



Most notably, I was the principal architect and developer of the industry-leading Impact of Change™ healthcare utilization forecasting system based on a unique differential equation model integrating demographic, sociocultural, financial and technology drivers to predict change. While at Sg2 I also served as clinical lead for strategy consulting projects at hospitals nation-wide, supported marketing and business development (helping to drive sales from startup to nearly \$12M in three years) and represented the company for any clinical-facing functions. Prior to Sg2, I served at the blue-chip management consultancy **Booz, Allen & Hamilton** engaged in a number of strategy projects for Fortune 500 healthcare and life sciences clients. During that time, I completed the firm's mini-MBA program for advanced degree professionals. I have also consulted to medical device firms, specifically with European (EMEA) and FDA clinical trial development, monitoring and oversight.

CLINICAL On the clinical side, I received my M.D. with honors (*Alpha Omega Alpha*) from the **Columbia University College of Physicians & Surgeons (P&S)** and completed surgical internship at the **Massachusetts General Hospital (MGH)** with a joint appointment as Clinical Fellow in Surgery at the **Harvard Medical School (HMS)**. I am also experienced in international medical relief work having served during the Kosovo **NATO** military campaign (with the **International Medical Corps**) and the 1999 earthquake in Turkey. I continue to teach the Mini-MD worldwide (see above). I am fluent in French and German, intermediate in Korean, and elementary in Turkish, Italian, and Russian.



THE WALL STREET JOURNAL.
The Boston Globe



THOUGHT LEADERSHIP & MEDIA As a noted healthcare technology expert and futurist, I have given keynote speeches worldwide, addressing emerging technologies, mobile healthcare, the future of healthcare, R&D strategy and innovation. My commentaries have been published in prominent publications, including the *Wall Street Journal* and I was a regular columnist for *Midwestbusiness.com*, the Midwest's leading technology newsletter. I hosted several *InTimeTV* series, including *Insights in Medicine*, *Eye on Harvard*, and *Nanotech Today*. Most recently, I have contributed a health & wellness column for *Seoul Magazine* and also authored a novel, a 21st century version of the *Faust* legend, called *Waves*. A screenplay is currently being written.



OGAN GUREL MD MPHIL

Curriculum Vitae

Birth Date: March 31, 1964	Marital Status: Married
Birth Place: Ankara, Turkey	Children: One
Citizenship: U.S.A.	Visa Status: Korea F-2-7 (Exp12/20/2021)
Languages: English (native), Korean & Turkish (intermediate), German & French (professional), Russian & Italian (conversational)	

Contact: Baekhyeon-dong Alpharium 204-902 Pangyoeyeok-ro 145 Bundang-gu, Seongnam-si Republic of Korea 13530	Email:	gurel@alumni.harvard.edu / og14@columbia.edu http://www.linkedin.com/in/ogangurel
		
	Mobile:	+82 (010) 2672-9152

EDUCATION AND TRAINING

UNDERGRADUATE			
Dates Attended	Institution & Location	Degree Received, Year	Discipline & Advisor
1982 – 1986	Harvard University Cambridge, MA	A.B. 1986 <i>cum laude</i>	Biochemical Sciences Prof. Martin Karplus Dr. Michael Weiss
GRADUATE			
1989 – 1994	Columbia University New York, NY	M.Phil. , 1991	Biochemistry & Molecular Biophysics Prof. Wayne Hendrickson
1987 – 1996	Columbia University College of Physicians & Surgeons New York, NY	M.D. 1996 (Ω) ¹	Medicine
POST-GRADUATE			
1996 – 1997	Massachusetts General Hospital Boston, MA	Surgery, Internship	
1997 – 1999	Massachusetts General Hospital Boston, MA	Neurosurgery, Residency (Junior)	

¹ Alpha Omega Alpha Medical Honor Society

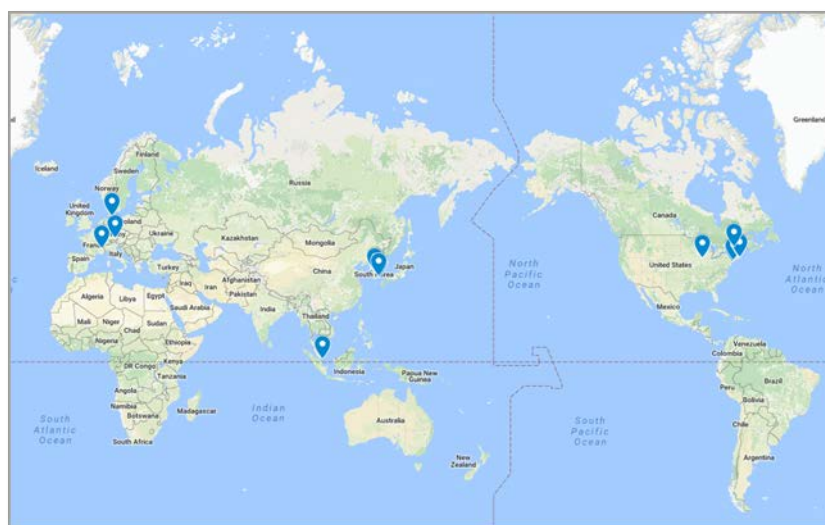
WORK EXPERIENCE²

DATES	INSTITUTION	LOCATION	POSITION
2017 – present	DGIST (Daegu Gyeongbuk Institute of Science & Technology) Management of Innovation Program	Deagu, South Korea	Visiting Distinguished Professor - (Link & Link)
2016 – present	NovumWaves Ltd	Seoul	Founder and Chief Executive Officer
2016 – present	Nessa Pte Ltd	Singapore	Chief Medical Officer (Acting) - (Link)
2016 – present	Posture360	Seoul	Chair of the Advisory Board
2015 – 2016	Campus D (on assignment from DRB – see below)	Seoul	Chief Innovation Officer
2015 – 2016	DRB Holdings Ltd	Busan, South Korea	Senior Advisor for Innovation (이사 - 기술혁신자문역)
2010 – 2015	Samsung Advanced Institute of Technology MOT Research Center & Open Innovation Group CTO Office	Suwon, South Korea	Director (부장)
2005 – 2010	Aesis Group LLC	Chicago	Principal
2007 – 2008	InTimeTV	Chicago	Medical Producer & Host
2006 – 2008	Midwestbusiness.com	Chicago	Columnist
2005 – 2006	Duravest Inc	Chicago, Montreal & Munich	Chief Executive Officer

² Work experience is listed in reverse chronological order. All other listings are chronologically listed.

2001 – 2004	Sg2 LLC	Evanston, Illinois	Vice President & Medical Director
2001	Booz Allen Hamilton	Chicago	Associate
1997 – 2000	Gurel Advisory	Boston & Kiel, Germany	Independent Consultant
1991 – 1997	MCAT Intensive Review / QRx Publishing	New York	President
1987	Institut Laue Langevin (ILL)	Grenoble, France	Visiting Researcher
1986 – 1987	Polygen Corporation	Waltham, Massachusetts	Computational Chemist
1983	IBM Corporation T.J. Watson Research Labs	Yorktown Heights, New York	Research Associate
1982	New York University Courant Institute of Mathematical Sciences	New York	Instructor Summer Program in Computer Science

PLACES WORKED



ACADEMIC & PROFESSIONAL APPOINTMENTS AND POSITIONS

Dates	Institution	Position
1982	New York University Courant Institute of Mathematical Sciences	Instructor Taught the intensive computer science course for high school students under Prof. Henry Mullish. Lectured on basic programming (Basic, Fortran, introductory Assembly language, Lisp) as well as principles of software development and software engineering.
1982	New York University Courant Institute Robotics Laboratory	Research Assistant Helped set up a new Robotic Systems Research Laboratory headed by Prof. Jacob T. Schwartz.
1983	IBM T.J. Watson Research Center Yorktown Heights Research Center	Research Associate Worked with Dr. Russell Taylor (Robotics Research Lab) to develop a high-level robotics programming language interfacing with AML.
1984	Harvard University Department of Cellular & Developmental Biology	Research Assistant Researched coated vesicles (clathrin) in the laboratory of Prof. Daniel Branton.
1985 – 1986	Harvard University Department of Chemistry	Research Assistant Worked in the laboratory of 2013 Nobel Laureate Prof. Martin Karplus (with Dr. Michael Weiss) on NMR & NOE-constrained molecular dynamics simulations of DNA in preparation for my undergraduate senior thesis.
1987	Institut Laue-Langevin Grenoble, France Laboratory of Dr. Giuseppe Zaccai	Visiting Researcher Developed Fourier map programs to facilitate analysis and interpretation of neutron diffraction data on selectively deuterated bacteriorhodopsin 2-D crystals. Jointly wrote JMB paper with Drs. Giuseppe Zaccai (ILL), Jean-Luc Popot (Institut Pasteur), and Don Engelman (Yale) describing the first sequence-structure helix mapping for this molecule. Gave presentations on the molecular biology of diabetes and on molecular dynamics methodologies. Performed molecular dynamics calculations (using CHARMM) on bacteriorhodopsin (with Michel Ferrand).
1989 – 1994	Columbia University College of Physicians & Surgeons	Teaching Fellow Taught Biochemistry, Physiology & Neural Science

Summer 1989	Columbia University College of Physicians & Surgeons Center for the Study of Society & Medicine	Research Associate Worked with Prof. David Rothman on the "History of Special Hospitals" in support of policy studies relating to the development of specialized clinical facilities for the then rapidly growing HIV/AIDS epidemic.
1996 – 1999	Harvard Medical School	Clinical Fellow in Surgery
1996 – 1999	Harvard College Mather House	Non-resident Pre-Medical Tutor Advised pre-medical students; wrote recommendations.
2001 – 2005	Roosevelt University	Adjunct Professor Taught Cell & Molecular Biology, Mathematical Modeling in the Life Sciences, and Introduction to Bioinformatics.
2007 – 2008 (2014 Alternate)	Medical Design Excellence Awards	Juror (link + PDF)
2007 – 2010	University of Illinois – Chicago	Adjunct Assoc Professor of Bioengineering (Link)
2012 – 2015	Samsung Advanced Institute of Health Sciences Technology (SAIHST) SungKyunKwan University (SKKU)	Visiting Professor (초빙교수) Taught the SAIT-SAIHST Mini-MD from 2012 – 2014.
2014 – present	American Association of Physicists in Medicine (AAPM) Task Group No. 260 "Considerations for the Use of Handheld Devices for Viewing Medical Images"	Non-Voting Member (Link)
2015 – present	Korea Business Leaders Alliance (KBLA)	Innovation Ambassador (Link) Linking KBLA members with the wider technology, startup & innovation community in Korea.

2015 – present	University of Melbourne Department of Electrical & Electronic Engineering	Honorary Fellow Centre for Neural Engineering
2015 – present	Libera Accademia Belle Arti (LABA)	Visiting Professor Master "Re-Design Medicine" program (Link)
2016 – present	Frasen Inc.	Advisor (Link)
2016 – present	Digital Health & Care Innovation Society (Singapore)	Member of the Steering Council
2016	World Citizens Organization (Seoul)	Communications Director
2017 – present	Galen Growth Asia (GGA)	Member of the Clinical Advisory Board (Link)
2017 – present	DGIST (Daegu Gyeongbuk Institute of Science & Technology) Management of Innovation Program	Visiting Distinguished Professor (Link & Link)

BOARD SCORES & EXAMINATIONS

Dates	Exam	Score
1989	National Board of Medical Examiners (NBME) Part I	Passed 745/96
1995	US Medical Licensing Exam (USMLE) Step 2	Passed 225/87
1997	US Medical Licensing Exam (USMLE) Step 3	Passed 218/87

TEACHING EXPERIENCE

Dates	Institution	Position & Description
1981	New York University Courant Institute for Mathematical Sciences	Guest Lecturer: Taught a series of lectures on APL to the summer program in computer science at the Courant Institute of Mathematical Sciences
1982	New York University Courant Institute for Mathematical Sciences	Instructor: Taught intensive computer science course for high school students. Taught basic programming (including Basic, Fortran, introductory Assembly language and Lisp) as well as principles of software development and software engineering.
1984 – 1985	Harvard University Bureau of Study Counsel	Tutor in biology, chemistry, biochemistry, and physics.
1991 – 1997	MCAT Intensive Review (New York City; Princeton, NJ; Boston, MA; Kansas City, MO)	President & Instructor: Developed a high-level MCAT preparation course; marketed the course nation-wide teaching more than 600 students in NYC, Princeton (NJ), Boston and the Midwest. For three years, I served the official MCAT prep provider for Princeton University.
1995 – 1996	Columbia University College of Physicians & Surgeons	Teaching Fellow in Neural Sciences Taught medical students basic neurosciences and neuroanatomy
1996 – 1999	Harvard College	Non-resident Pre-medical Tutor , Mather House
1997	Harvard Medical School	Teaching Fellow in Neuroanatomy
1996 – 1998	Harvard Medical School	Clinical Fellow in Surgery Supervising HMS medical students
2002 – 2004	Sg2, LLC	Guest lecturer at several academic institutions including Northwestern University and Rush University.
2001 – 2005	Roosevelt University	Adjunct Professor: Taught Cell & Molecular Biology, Mathematical Modeling and Introduction to Bioinformatics.
2010	Gunner Training (now Firecracker)	Editor-In-Chief & Senior Author Premedical (MCAT) Programs

2011 – 2013	Samsung Advanced Institute of Technology (SAIT)	Instructor: SAIT Mini-MD 20 session review of preclinical and clinical sciences Taught three times
2012 – 2014	Samsung Advanced Institute of Health Sciences Technology (SAIHST)	Visiting Professor: SAIHST Mini-MD 20 session review of preclinical and clinical sciences Taught four times
Feb 2013	Samsung Research America (SRA – Silicon Valley)	Instructor: SAIT-SRA Micro-MD 1 ½ day medicine review
July 2013	Samsung Research America (SRA - Dallas)	Instructor: SAIT-SRA Micro-MD 1 ½ day medicine review
Aug 2015	National University of Singapore (NUS)	Instructor: Mini-MD; one-day course - Link
Aug 2015	Singapore-Stanford Biodesign (SSB)	Instructor: Mini-MD; one-day course - Link 1 & Link 2
Oct 2015	Startup HealthTech & Peak15 (Melbourne)	Instructor: Mini-MD; one-day course - Link 1 & Link 2
Mar 2016	Libera Accademia Belle Arti (LABA University in Brescia, Italy)	Visiting Professor: Mini-MD; four-day course - Link 1 & Link 2
Apr 2016	Singapore Mini-MD	Instructor: two-day program - Link
Apr 2016	Mini-MD at Samyang Holdings	Instructor: one-day program
Jul 2016	Singapore Mini-MD	Instructor: two-day program - Link
Aug 2016	Singapore-Stanford Biodesign (SSB)	Instructor: Mini-MD; one-day course - Link 1 & Link 1

Oct 2016	Seoul Mini-MD	Instructor: one-day course - Link
Jan 2017	Allianz Life Mini-MD	Instructor: In-house Corporate Mini-MD; one-day course
Feb 2017	Singapore Mini-MD	Instructor: two-day program - Link
Feb 2017	Auckland Mini-MD (Auckland University of Technology – AUT)	Instructor: two-day program - Link
May 2017	AXA Mini-MD (Singapore)	Instructor: In-house Corporate Mini-MD; two-day course
Sep – Dec 2017	DGIST (Daegu Gyeongbuk Institute of Science & Technology) (MOI Program)	Visiting Distinguished Professor Teaching “ Technology Marketing ” in the Management of Innovation Program
Aug 2017	ESSEC Business School Mini-MD (Singapore)	Instructor: Two-day course – Link
Jan 2018	ESSEC Business School Mini-MD Master’s in Management of Health Industries Program (Singapore)	Instructor: Three-day course
Mar – June 2018	DGIST (Daegu Gyeongbuk Institute of Science & Technology) (MOI Program)	Visiting Distinguished Professor Teaching “ Technology Marketing ” in the Management of Innovation Program
Mar – June 2018	DGIST (Daegu Gyeongbuk Institute of Science & Technology) (MOI Program)	Visiting Distinguished Professor Teaching “ Foundations of Innovation ” in the Management of Innovation Program cross-registered with the College of Transdisciplinary Studies (undergraduate school)

SPECIAL PROFESSIONAL ACTIVITIES

Dates	Institution & Location	Description
1996	Massachusetts General Hospital BLS & ATLS certification Boston, Massachusetts	Passed Basic Life Support (BLS) and Advanced Life Support (ATLS) courses and certification
1999	International Medical Corps Skopje, Macedonia	Staff physician: provided patient care, logistical support and supervisory work in the refugee camps in Macedonia during the NATO military campaign in Kosovo.
2001	Booz-Allen Presentation Skills Chicago, IL	One-week intensive course covering presentation skills and public speaking development.
2001	Booz-Allen Mini-MBA Zurich, Switzerland	Two-week intensive course covering economics, microeconomics, business cycle theory, accounting, corporate finance, international business and other topics.
2003	Sg2 Presentation Skills course Evanston, IL	Three-day intensive course.
2009	Walk For Healthcare Chicago to Washington, DC	Walked 700 miles from Chicago to Wash, DC for healthcare reform, collecting and publishing stories along the way. (Link)
2011–2013	Samsung Electronics Korean Language classes Giheung & Suwon, South Korea	Passed Intermediate (Level 3) of the Test of Proficiency in Korean (TOPIK) examination.
2012	Samsung Electronics Global Leadership Academy (GLA) Suwon, Korea	Executive leadership training program.

HONORS & AWARDS

Dates	Award	Institution
1979–1981	Columbia University Science Honors Program (SHP)	Selective Program for High School students (Link)
1982	National Merit Finalist	National Merit Scholarship (Link)
1982	NY State Regents Diploma	State University of New York (Link)
1982	Westinghouse Science Talent Search 3rd Place (\$10,000 Scholarship)	Westinghouse Science Talent Search (Link 1 + Link 2)
1982	Student Honoree	American Academy of Achievement (Link)
1982	IBM TJ Watson Scholar	IBM Corporation
1982–1986	Dean’s List all semesters	Harvard College
1985	Varsity (Major “H”) Letter	Harvard University, Department of Athletics
1986	<i>cum laude</i> in Biochemical Sciences	Harvard University Dept of Biochemistry & Molecular Biophysics
1987–1999	Medical Scientist Training Program (MSTP) Awardee and scholarship	National Institutes of Health (Link) Medical Scientist Training Program (MSTP)
1988	First HIV Center Symposium Poster Competition Special Prize	New York State Psychiatric Institute
1994	Pauling Poster Prize honorable mention	American Crystallographic Association (Link)
1995	<i>Alpha Omega Alpha</i>	Alpha Omega Alpha medical honor society (Link)
1996	Sciarra Prize for Excellence in Neurology	Columbia University College of Physicians & Surgeons (Link)
2011	<i>Congressional Record</i> citation	United States Congress (Link)

RESEARCH INTERESTS

- Protein Electrodynamics & Terahertz Medicine; Terahertz – Bio interactions
- The Relationship between Technology and Corporate Structures: “Theory of the Firm” in the 4th Industrial Revolution
- History of Open Innovation and Implications for Evolving Innovation Paradigms

MAJOR PUBLICATIONS & PRESENTATIONS

REFEREED ARTICLES (PEER-REVIEWED)

Popot JL, Engelman DM, **Gurel O**, Zaccai G, (1989), “Tertiary structure of bacteriorhodopsin. Positions and orientations of helices A & B in the structural map determined by neutron diffraction.” *J Mol Biol.* **210**(4):829-47 [Link](#)

Jiang X, **Gurel O**, Mendiaz EA, Stearns GW, Clogston CL, Lu HS, Osslund TD, Syed RS, Langley KE, Hendrickson WA, (2000), “Structure of the active core of human stem cell factor and analysis of binding to its receptor Kit,” *EMBO J.* **19**(13):3192-203. [Link](#)

Gurel O. (2008) “Diabetes: Medical vs. Surgical Disease?” *Journal of Diabetes Science and Technology*, **2**(1):135. [Link 1](#) & [Link 2](#)

Brewer J, and **Gurel O**, (2009), “Nanomedicine: Issues of Privacy and Informed Consent,” *Nanotechnology Law & Business*, **6**:45. [Link](#)

Kim MS, Sim TS, Kim YJ, Kim SS, Jeong H, Park JM, Moon HS, Kim SI, **Gurel O**, Lee SS, Lee JG, Park JC, (2012), “SSA-MOA: a novel CTC isolation platform using selective size amplification (SSA) and a multi-obstacle architecture (MOA) filter,” *Lab Chip*; **12**(16):2874-80. [Link](#)

Kim MS, Kim J, Lee W, Cho S-J, Oh J-M, Lee J-Y, Baek S, Kim YJ, Sim TS, Lee HJ, Jung G-E, Kim S-I, Park J-M, Oh JH, **Gurel O**, Lee S-S, Lee J-G, (2013), “A Trachea-inspired Bifurcated Microfilter Capturing Viable Circulating Tumor Cells via Altered Biophysical Properties as Measured by Atomic Force Microscopy,” *Small*; **9**(18):3103-10. [Link](#)

Kim MS, Jo S, Park JT, Km SS, Kang HT, **Gurel O**, Park SC, (2015), "A New Method to Purify and Analyze Heterogeneous Senescent Cell Populations Using a Novel Microfluidic Filter with Uniform Fluidic Profile," *Anal. Chem*; **87**(19):9584–9588. [Link](#)

Park KJP, Lee K, Lee JH, Kang B, Shin C-W, Woo J, Kim J-S, Suh Y, Kim S, **Gurel O**, Ryu H, (2015) "Computationally Efficient, Real-time Motion Recognition Based on Bio-Inspired Visual and Cognitive Processing," *ICIP*, 932-935. [Link](#)

Yeo W-G, **Gurel O**, Srinivasan N, King PD, Nahar NK, Park S, Lehman N, Sertel K, (2017), "Terahertz Imaging and Electromagnetic Model of Axon Demyelination in Alzheimer's Disease," *IEEE Transactions on Terahertz Science and Technology*, **7**(6), August 30. [Link](#)

RECENT PRESENTATIONS, WORKSHOPS & SEMINARS (2011 – PRESENT)
"Protein Electrodynamics and the Terahertz gap," Korea Atomic Energy Research Institute (KAERI) Seminar , Daejeon, South Korea, 24 Oct 2012.
"Perspectives on the Future of Healthcare," Gananan Forum , Seoul, 5 Nov 2012.
"Unique Challenges in Healthcare Innovation," SAIT MOT Forum , Giheung, South Korea, 9 Nov 2012.
"THz Medicine: A New Frontier?" 3rd WCI Symposium , WCI-2012, Seoul, 15 Nov 2012. Link
"Global Perspectives on the Future of Healthcare," KAIST College of Business , Seoul, 20 Nov 2012.
"Protein Electrodynamics & Terahertz Medicine: A New Frontier?" University of Southampton, Optoelectronics Research Centre Seminar , Southampton, 3 Dec 2012. Link
Gurel O , Park J, Ryu SE, (2013) "Terahertz spectroscopy of methemoglobin: implications for novel medical imaging and therapeutics," SPIE Photonics West "Terahertz and Ultrashort Electromagnetic Pulses for Biomedical Applications" , San Francisco, 7 Feb 2013. Link
"Protein Electrodynamics: Possibilities for Next-generation THz-based Medical Diagnosis and Treatment," Ohio State University, ElectroScience Laboratory, IEEE AP-MTT Chapter Seminar , Columbus, Ohio, 11 Feb 2013. Link
"Protein Electrodynamics & Terahertz Radiation: The Future of Medicine?" 4th THz-Bio Workshop , Seoul National University, Seoul, 15 Feb 2013. Link
"Protein Electrodynamics: A Revolution Medical Diagnosis & Therapy" Samsung R&D America , Dallas, 31 Jul 2013.
"Protein Electrodynamics: Possibilities and Challenges in Terahertz Medicine," Electronics and Telecommunications Research Institute (ETRI) , Daejeon, South Korea, 3 Apr 2013.
Yeo WG, Nahar NK, Hitchcock CL, Park SC, Gurel O , Sertel K, "Real-time THz Imaging of Human Tissue Characteristics and Cancer Margins," IRMMW-THz 2013 , Mainz, Germany, 5 Sep 2013. Link
Lewis RJ, Lim EL, Rowe DJ, Alam S, Nilsson J, Baik CW, Gurel O , Wilkinson JS, Richardson DS, "High-Resolution Broadly-Tunable MOPA-Based Terahertz Spectrometer to Non-Destructively Probe and Modulate Protein Electrodynamics," IRMMW-THz 2013 , Mainz, Germany, 5 Sep 2013. Link
Gurel O and Pastreich E, "Seoul as a Mecca for the Creative Class in the 21 st Century," 10 Magazine Book Club and The Asia Institute , Lecture & Panel, Seoul, 14 Sep 2013. Link & BusinessKorea
Lewis RJ, Lim EL, Rowe DJ, Alam S, Nilsson J, Baik CW, Gurel O , Wilkinson JS, Richardson DS, "Terahertz Spectroscopy to Non-Destructively Probe and Modulate Protein Electrodynamics: Fundamental Basis for THz Medicine," Bioelectrics 2013 , Karlsruhe, 19 Sep 2013. Link
"eHealth Trends," Seoul Tech Society , Seoul, 16 Mar 2014. Link

<p>"mHealth and Sensors," 4th Mobile & Wearable Technology Healthcare 2014, Singapore, 4 April 2014. Link</p>
<p>Samsung-Telstra "Create & Innovate" Digital Healthcare Workshop, Melbourne, 16 May 2014.</p>
<p>"E-Health & the Revolution in Healthcare," International Federation of Health Plans, Biennial Conference, Madrid, 20 May 2014. Link</p>
<p>Yeo WG, Nahar NK, Hitchcock CL, Park SC, Gurel O, Sertel K, "THz Spectroscopy and Imaging of Major Human Organ Tissues for Cancer Margin Assessment," 2014 IEEE International Symposium on Antennas and Propagation, Memphis, Tennessee, 8 Jul 2014. Link</p>
<p>"Art & Culture in the U.S. and Korea," 3rd U.S. Studies Seminar, Dinner speech and Talk Concert, Seoul, 26 Aug 2014. Link</p>
<p>Yeo WG, Nahar NK, Hitchcock CL, Lehman NL, Park SC, Gurel O, Sertel K, "THz Imaging of Alzheimer's Disease: Spectroscopic Differentiation Between Normal and Diseased Tissues," Tucson, Arizona, IRMMW-THz 2014, 16 Sep 2014. Link</p>
<p>"Nursing in the Mobile Health Era," HIMSS APAC14: Singapore, 16 Sep 2014. Link</p>
<p>"mHealth and Paradigm Shifts in Healthcare," HIMSS APAC14, Singapore, 17 Sep 2014. Link</p>
<p>"Protein Electrodynamics & Terahertz Medicine: A New Frontier?" Okinawa Institute of Science & Technology, Okinawa, Japan, 11 Aug 2014.</p>
<p>"Protein Electrodynamics & Terahertz Medicine," Martin Karplus Celebration Symposium, San Francisco, 30 Sep 2014. Link</p>
<p>"Protein Electrodynamics and Terahertz Medicine," French-Singaporean workshop on Technologies and Applications of ultra-high frequency nano-systems, Nanyang Technological University, Singapore, 16 Oct 2014. Link</p>
<p>"The Role of Universities in Korea for the Prospective Global Leaders," Panel Discussion, U.S. Embassy – Kyunghee University, 5 Nov 2014.</p>
<p>"The Digital Health Revolution and Paradigm Shifts in Medicine," Bringing State-of-the-Art Innovation to the Treatment of Allergies, Bali, Indonesia, 14 Nov 2014.</p>
<p>"The Digital Health Revolution and Paradigm Shifts in Medicine," National Health IT Summit 2015, Singapore Ministry of Health Holdings, Singapore, 7 Jan 2015.</p>
<p>"Protein Electrodynamics and Terahertz Medicine," University of Oxford, Department of Engineering Science, Oxford, 9 Feb 2015.</p>
<p>"Digital Healthcare and Paradigm Shifts in Medicine," Digital Health Assembly Open Innovation Conference, Cardiff, 10 Feb 2015. Link</p>
<p>"Protein Electrodynamics and Terahertz Medicine," University of Bristol, School of Chemistry, Bristol, 12 Feb 2015. Link 1 and Link 2</p>

Victorian State Government Digital Healthcare workshop , Melbourne, 26 Feb 2015.
"KBLA What's Next Seminar: The Digital Healthcare Revolution and Paradigm Shifts in Medicine," Korea Business Leaders Alliance , Seoul, 17 Mar 2015. Link & BusinessKorea
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SSM Executive Council Retreat, "Future Trends in Healthcare: Implications for Patient-Centered Care"
VHA Senior Marketing Executive Affinity Group Meeting, "Future of Healthcare and Its Impact on Marketing"

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VHA Central Surgery Managers Conference, "The Future of Surgical Services"
Premier All-Committee Meeting, "The Future of Healthcare: Disruptive Technologies"
IONE 2004 Fall Conference, "The Future of Healthcare: Impact of Technology"
IONE 2004 Fall Conference, "The Hospital of the Future"
Harvard Club of Chicago, "Emerging Healthcare Technologies and the Future of Medicine," Chicago, 13 Mar 2003.
VHA ICU Conference, "Technology Horizon: Shaping the ICU of the Future"
American Data Network Leadership Conference, "Maintaining Competitive Advantage as Healthcare Changes"
VHA Upper Midwest CIO Conference, "Engaging Physicians in Healthcare IT"

The Future of Biotech – Roosevelt University, Chicago, Apr 2005.

12th Annual ASC Conference, "Future Trends in Ambulatory Surgery Centers," Chicago, 21 Oct 2005.

MediCHEF Educational Session, "Medical Nanotechnology: Implications for Healthcare," Chicago, 29 Nov 2005.

ACI Conference - OR of the Future, "Future Trends in Surgery," San Francisco, 18 Jan 2006.

Leader's Board for Group Practice Executives, "Future of Healthcare for Group Practice Executives," San Diego, 24 Jan 2006.

Optimizing Your Clinical Trials Conference, "Keynote presentation," Newark, NJ, 9 Feb 2006.

Investment In Innovation (In3) Conference, "Duravest company presentation," San Diego, 24 Feb 2006.

ARCH Investment Conference – "Duravest company presentation," New York, 18 May 2006.

BioDevice Partnering – 2006, "Financing of convergent medical technologies," Keynote Panel, 13 Jun 2016 (Edinburgh, Scotland)

Illinois Institute of Technology Hospital of the Future Conference 2006, "Forecasting the Impacts of Technology on Cardiac Services and Other Trends in Healthcare Delivery", Chicago, 18 August 2006.

6th National Conference on Comprehensive Cancer Programs & Services, "Emerging Technology Trends Impacting Cancer Care" & conference chair, San Francisco, 18 Sep 2006.

McGuireWoods Private Equity Investment in Health Care Conference, "Key trends in healthcare impacting private equity investment," Chicago, 4 Oct 2006.

Accelerating Innovation – "Keynote Presentation", MaRS Discovery District, Ottawa, Nov 2007.

Investing in Medical Nanotechnologies II – "Keynote Presentation," London, Dec 2007.

Clinical Future of Convergence – Panel Moderator at BioDeviceForum, San Jose, Sep 2008.

INTERNET TELEVISION PRESENTATIONS (<i>INSIGHTS IN MEDICINE</i> HOST)
<i>Update on the Surgical Management of Thyroid and Parathyroid Disease</i> Link Richard Prinz MD - Helen Shedd Keith Professor and Chairman of Surgery, Rush University Medical Center
<i>End-of-Life Planning and Advance Directives</i> Link Linda Emanuel MD PhD - Director, Buehler Center on Aging, Northwestern University
<i>Fatty Liver Disease</i> Link Nancy Reau MD - Assistant Professor of Medicine, University of Chicago Center for Liver Disease
<i>Melanoma of the Skin</i> Arthur Rhodes MD MPH – Professor of Dermatology, Rush University Medical Center
<i>Advances in Neuro-Oncology - Stem Cell Therapy</i> Link Alfredo Quinones-Hinojosa MD - Assistant Professor of Neurological Surgery and Oncology - John Hopkins University
<i>Surgical Management of Inflammatory Bowel Disease</i> Alessandro Fichera MD - Assistant Professor of Surgery - University of Chicago
<i>Update on Head & Neck Cancer</i> Ezra Cohen MD - Assistant Professor of Medicine (Hematology/Oncology) - University of Chicago
<i>Liver Transplantation</i> Giuliano Testa MD FACS - Director, Liver Transplantation and Hepato-Biliary Surgery - University of Chicago
<i>Update on pancreatico-biliary surgery</i> Richard Prinz MD - Helen Shedd Keith Professor and Chairman of Surgery - Rush University Medical Center
<i>Minimally Invasive Spine Surgery</i> Yevgeniy A. Khavkin MD - Assistant Professor of Neurological Surgery - Northwestern University
<i>Hip Arthritis and Hip Replacement / Resurfacing - Update & Advances</i> Craig Della Valle MD - Associate Professor of Orthopedic Surgery - Rush University Medical Center
<i>Ankle Arthritis - Total Ankle Replacement and Newer Bone Sparing Options</i> Michael Pinzur MD AAOS - Professor of Orthopaedic Surgery & Rehabilitation - Loyola University Medical Center
<i>Focusing the Radiation Beam: Stereotactic Radiosurgery</i> Issam Awad MD MSc FACS MA (hon) - Professor and Vice-Chairman of Neurosurgery at Northwestern University
<i>Update on Radiation Therapy for Gynecologic Malignancies</i> William Small Jr. MD FACRO - Professor and Vice-Chairman of Radiation and Oncology - Northwestern University
<i>Advances in Functional Neurosurgery</i> Joshua M. Rosenow MD – Director, Functional Neurosurgery - Northwestern University
<i>Medical Diplomacy</i> Gov. Tommy Thompson (former Governor of Wisconsin and previously Secretary of U.S. Department of HHS)
<i>Cranial Electrotherapy Stimulation for the Depressive Phase of Bipolar Disorder – Advances and Indications</i> Chip Fisher – President Fisher-Wallace Laboratories
<i>Intermittent Explosive Disorder</i> Emil F. Coccaro MD - Professor & Chairman of Psychiatry at the University of Chicago
<i>Screening, Diagnosis and Treatment in Prostate Cancer: Evaluating the Options</i> Lawrence S. Ross MD - Professor of Urology at the University of Illinois - Chicago

<p><i>Neurosurgical Pain Management</i> Konstantin Slavin MD - Associate Professor of Neurosurgery at the University of Illinois at Chicago</p>
<p><i>Reporting from the Medical Design Excellence Awards</i> Steven Halasey - Editor-in-Chief of MX Magazine Herbert Voigt PhD - Professor, Boston University College of Engineering Kouros Azar MD - Biomedical engineer and plastic surgeon</p>
<p><i>Expanded Role for Ultrasound in Physical Diagnosis</i> Jason Birnholz MD FACR FRCR, Diagnostic Ultrasound Consultants</p>
<p><i>Update on Liver Diseases</i> Donald M. Jensen MD ; Professor of Medicine and Director at the Center for Liver Diseases at the University of Chicago</p>
<p><i>Quality of Care and Quantity of Payment: The New Link Between Performance and Reimbursement</i> Michael Millenson, President of Health Quality Advisors</p>
<p><i>Physician Quality & Performance Measurement</i> Joseph V. Messe, MD, FACP, MACC, FCCP, Professor of Medicine at Rush Medical College</p>
<p><i>Issues in Gastroenterology: C. Diff Colitis; Nutrition and other topics</i> Dr. Carol Semrad., Associate Professor of Medicine at the University of Chicago</p>
<p><i>Update on MRSA</i> Dr. Bala Hota MD MPH, Assistant Professor of Medicine (Infectious Diseases) at Rush University Medical Center</p>
<p><i>Advances in Targeted Therapies for Cancer</i> Ezra Cohen MD - Assistant Professor of Medicine (Oncology) at the University of Chicago</p>
<p><i>Gastroenterology for the Family Practitioner</i> Dr. Carol Semrad MD., Associate Professor of Medicine at the University of Chicago</p>
<p><i>Issues in Male Reproductive Health for the General Practitioner</i> Craig Niederberger MD - Chairman of Urology, University of Illinois - Chicago</p>
<p><i>Update on Bariatric Surgery</i> Vivek Prachand MD - Assistant Professor of Surgery at the University of Chicago</p>
<p><i>Insights in Gastroenterology for the Primary Care Physician</i> Arvydas D. Vanaganas MD, Associate Chief for Clinical Gastroenterology at Northwestern University School of Medicine</p>
<p><i>Online Communities for Doctors: The What, the Why and the How</i> Tobin Arthur – Founder and CEO of iMedExchange, Inc.</p>
<p><i>Nephrolithiasis for the General Practitioner</i> Stewart Lipson MD - Associate Professor of Urology at the University of Illinois – Chicago</p>
<p><i>Integrating Physical Health Care for Individuals with Serious Mental Illness</i> Peter Weiden MD, Professor of Psychiatry and Director of the Psychosis Program at the University of Illinois – Chicago</p>
<p><i>Women's Heart Health</i> Annabelle Volgman MD FACC, Director of the Rush Heart Center for Women</p>
<p><i>Advances in the Management of Cerebral Aneurysm Disease and Stroke</i> Bernard Bendok MD, Assistant Professor of Neurological Surgery and Radiology- Northwestern University School of Medicine</p>
<p><i>The Present & Future of Primary Care Medicine</i> C. Anderson Hedberg MD, MACP, former President of the American College of Physicians</p>
<p><i>Unmet Needs in Primary Care</i> Vedat Obuz MD, Medical Director at the Lotus Medical Clinic</p>

INTERNET TELEVISION PRESENTATIONS (<i>NANOTECH TODAY</i> HOST)
—, (28 Mar 2008) "Nanotechnology internet TV talk show debuts," <i>nanowerk</i> . Link
<i>Bioinspired Nanomaterials</i> Link Chad Mirkin PhD - Professor of Chemistry and Director of the Institute for Nanotechnology at Northwestern University
<i>Biologically inspired strategies for new biomaterials</i> Link Phillip Messersmith PhD - Professor of Biomedical Engineering - Northwestern University
<i>Emerging Technologies for Nano-Engineered Medicine</i> Link Dean Ho PhD - Professor of Biomedical Engineering - Northwestern University <ul style="list-style-type: none"> • Nano-Engineered Medicine - Dean Ho - Pt. 1 - Link • Nano-Engineered Medicine - Dean Ho - Pt. 2 - Link
<i>Bio-Inspired Sensors</i> Hooman Mohseni PhD - Assistant Professor of Electrical Engineering & Computer Sciences - Northwestern University
<i>Linking structure and function at the molecular level</i> Neville Freeman PhD – President, Farfield Scientific
<i>The role of complex dissipative systems, non-equilibrium self-organization and self-assembly in nanotechnology</i> Bartosz A. Grzybowski PhD - Associate Professor of Chemical and Biological Engineering - Northwestern University
<i>Self-Assembling Molecules for Cell Signaling</i> Daniel Harrington PhD - Research Assistant Professor - Northwestern University
<i>Nanoparticle-based sensors</i> Sandra Bishnoi PhD - Assistant Professor - Illinois Institute of Technology
<i>Making "Sense" of DNA</i> Franz Geiger PhD - Dow Chemical Company Professor at Northwestern University <ul style="list-style-type: none"> • Making "Sense" of DNA - Prof. Franz Geiger - Link
<i>The Nanostructure of Portland Cement - New Approaches to Studying an Old Material</i> Hamlin M. Jennings PhD - Professor of Civil and Environmental Engineering - Northwestern University <ul style="list-style-type: none"> • Nanostructure of Portland Cement - Hamlin Jennings - Link
<i>Fostering Innovation in Nanotech</i> Ogan Gurel, MD

INTERNET TELEVISION PRESENTATIONS (<i>FUTURE MD</i>)
Joshua M. Rosenow MD – Director, Functional Neurosurgery - Northwestern University - Link
Saul Weiner MD - Section Chief, General Pediatrics - University of Illinois at Chicago - Link
Lawrence S. Ross MD - Professor of Urology at the University of Illinois - Chicago - Link
Richard Prinz MD - Helen Shedd Keith Professor and Chairman of Surgery - Rush University Medical Center - Link
Giuliano Testa MD FACS - Director, Liver Transplantation and Hepato-Biliary Surgery - University of Chicago - Link
Emil F. Coccaro MD - Professor & Chairman of Psychiatry at the University of Chicago - Link
Issam Awad MD MSc FACS MA (hon) - Professor and Vice-Chairman of Neurosurgery at Northwestern University - Link

INTERNET TELEVISION PRESENTATIONS (*EYE ON HARVARD* HOST)

—, (Jan–Feb 2008) "Alumni: Eye on Harvard," Harvard Magazine. [Link](#)

Medical Devices, Pharmaceuticals and Biotechnology: Bringing it All Together [Link](#)
Dr. Norbert Riedel - Chief Scientific Officer - Baxter International

The World of Politics

David Wilhelm MPP'90 – President & Founder of Woodland Venture Management

- Barack Obama & Hillary Clinton compared - [Link](#)
- The Evolution of President George W. Bush - [Link](#)
- Lessons from the Kennedy School at Harvard University - [Link](#)
- Illinois Politics and Sen. Barack Obama - [Link](#)
- Thoughts on the challenges facing DNC Chair Howard Dean - [Link](#)
- Turmoil in the Democratic Nominating Process: Good or Bad? - [Link](#)
- Why I decided to support Barack Obama - [Link](#)
- What Makes Barack Obama "Tick" - [Link](#)
- On Choosing a President - [Link](#)
- Comparing politics in 1992 with the present time - [Link](#)
- On negativity in the Clinton campaign - [Link](#)

Hedge Funds in 2008 and beyond: Current Trends in Small Cap Investing
Brendan Carroll MBA '04 - Victory Park Capital Advisors, LLC

Terra Firma - A Journey from Migrant Farm Labor to Neurosurgery
Alfredo Quinones Hinojosa, MD '98

The World of Nanotechnology: Self-Assembly of Complex Systems
Bartosz A. Grzybowski PhD '00 - Associate Professor of Chemical and Biological Engineering - Northwestern University

New Approaches to Bridging the Achievement Gap in Secondary School Science & Math Education
Sam Dyson - MEd'00 - Walter Payton College Prep
Kevin McCarron - MEd'94 - Science Teacher - Oak Park & River Forest High School
Vivian Hoette - HSE - Astronomy Educator, University of Chicago - Yerkes Observatory

Topics in the History of Ethnic Cleansing, Nationalism and the Use of Courts for Political Ends
Prof. Benjamin Frommer - PhD'99 - Associate Professor of History - Northwestern University

Healthcare Reform, Challenges in Hospital Finance
James Doyle - HSPH - Senior VP & CFO, Elmhurst Memorial Healthcare

An Introduction to String Theory
Savdeep S. Sethi PhD '99 - Associate Professor of Physics - University of Chicago

From Shakespeare to South Park
Judith Kegan Gardiner, AB '62 - Professor of English and Gender and Women's Studies - University of Illinois at Chicago

Studying Access to Healthcare: Surprising or not so surprising conclusions
Dr. Saul Weiner AB '88 - Section Chief, General Pediatrics - University of Illinois at Chicago

Geopolitical Trends – the Middle East, Russia & Africa
Frederick C. Broda AMP'88 – Advisor at Oxford Analytica

New Paradigms in Treating Psychiatric Disorders
Chip Fisher AB'78 – President Fisher-Wallace Laboratories

Turkey's Foreign Policy
Ambassador Altay Cengizer – Fellow, Harvard Weatherhead Center for International Affairs

Medical Diplomacy
Gov. Tommy Thompson (former Governor of Wisconsin and previously Secretary of U.S. Department of HHS)

<p><i>Featuring the Art and Artistry of John Himmelfarb</i> John Himmelfarb AB '68 MAT '70 - Artist</p>
<p><i>The World of Commercial Real Estate</i> Michael Alter AB'83 - President, The Alter Group</p>
<p><i>Explorations in Entrepreneurship</i> Steven Kaplan, AB'81 AM'82 PhD'88 - Professor of Entrepreneurship at the University of Chicago</p>
<p><i>The view from LA</i> Yule Caise, AB'86 – Writer, Producer, Director Frank Evers, AB '87 – Managing Director , VII Photo LLC</p>
<p><i>The World of Healthcare Law</i> Scott Becker JD'98 - Healthcare Co-Chair at McGuireWoods, LLP</p>
<p><i>Fetal Medicine – how the field began at Harvard and where it is going</i> Dr. Jason Birnholz, MGH/HMS '70 – '79</p>
<p><i>Perspectives on Employment: Past, Present and Future</i> John A. Challenger, AB'77- CEO of Challenger, Gray & Christmas, Inc.</p>
<p><i>Physician Quality Measures - The Good and the Bad</i> Dr. Joseph Messer, AB '53 MD '56</p>
<p><i>Encyclopedia of Life</i> John McCarter MBA '63 - President & CEO of the Field Museum of Natural History</p>
<p><i>Next-generation investment paradigms</i> Jan Hummel MBA '86, CEO of Paradigm Capital Management</p>
<p><i>The Harvard-Munich Medical Alliance</i> Prof. Chris Frank MD, Chief of Cardiac Anesthesiology, Ludwig Maximilians University (Munich) and Executive Director of the LMU-Harvard Medical Alliance</p>
<p><i>The Psychology of Terrorism, The Center for Global Initiatives and more...</i> Dr. Chris Stout, Founding Director - Center for Global Initiatives</p>
<p><i>Your Inner Fish: How studying fish fossils and worm DNA tells us something about ourselves</i> Prof. Neil Shubin, PhD '87 - Professor and Chair, Dept. of Organismal Biology and Anatomy at the University of Chicago</p>
<p><i>Doctor, What Should I Do With My Baby's Cord Blood? –The Politics, Economics, Business & Ethics of Stem Cells and Cord Blood</i> Dr. Paul Kent 'AB86 – Assistant Professor of Pediatric Hematology/Oncology at Rush University Medical Center</p>
<p><i>From Cash Flows to Waterfalls: An I-Banker Turned Adventure Travel Entrepreneur</i> Nancy Collins MBA'99, CEO of Global Adrenaline, Inc.</p>
<p><i>An Outsiders Perspective Inside of North Korea</i> Walter Keats AB '67 President of Asia Pacific Travel</p>

BLOG ARTICLES (MULTIPLY SYNDICATED)
Global and Historical Perspectives on Invention & Innovation
On Innovation Part II: Fostering Innovation
Expanding Health Coverage to the Uninsured: How to Pay for it - the Health Impact Tax
On Innovation, Fostering Innovation and Accelerating Development: New Webcast
On Innovation Part I: Innovation is Not the Same as Invention
A Pharmaceutical Addiction
Medical Diplomacy: A Brief Outline
Diabetes: Looking Past Blood Sugar ...
FDA issues a "black box" warning for Avandia - A Balancing Act Between Safety and
The Deconstruction of Amgen
Is Healthcare too Personalized for Personalized Medicine?
Accelerating Medical Technology Innovation, Drug/Device Safety and FDA Reform: InTimeTV broadcast
FDA panel votes to retain Avandia on the market: DrugWonks celebrate; Prince Hal rails against Falstaff ...
"Nothing but Momentum" ... Life Sciences on a roll in Illinois
Life Sciences Accelerator, Drug Safety, FDA reform and other topics
FDA Report on Avandia: Implications and a "critique" of the critique
"Conversations in Biotechnology and other topics": InTimeTV interview
Has the private equity boom peaked?
Private equity boom (and bust?): Implications for the Life Sciences
Boston Scientific, Medtronic settle some defibrillator suits; is the device safety storm over?
Avandia, the Drug Safety Debate and How to Get a Nobel Prize
Patent Reform Act of 2007: Innovation, Implications and the American Inventor
Bleeding stents ... Is the drug-eluting stent era over?
Convergent Medical Technology: Part II - Why is it important?
Financial Incentives Can Drive New Pharmaceutical & Medical Technology Adoption: What are the Implications?
GE Healthcare acquisition of Abbott Diagnostics deal scrapped: Who could be the next buyer in line?
Biologue Chicago - Life Sciences at the Columbia Yacht Club
How Doctors Think: Implications for Life Science Business & Finance
Convergent Medical Technology: Part I - What is it?
Chief Partnership Officer: An Idea Whose Time Has Come?
The Many Surprising Implications of Hip Resurfacing Implants
FDA Reform Redux: On Business Models, Regulatory Reform and Safety
Too Few Biotech Firms in Chicago?
New Blog Launch: Independent Life Sciences Business & Investment Blog Debuts on Independence Day
Zangani Audio Webcast: Technology convergence, Personalized Medicine and Patient Safety

SAMSUNG PRESENTATIONS (NOT INCLUDING CONFIDENTIAL INTERNAL PRESENTATIONS)	
2012/11/9	"Unique Challenges in Healthcare Innovation" - Samsung Tech Conference 2012 - MOT Forum
2013/4/12	"Pride in Samsung" - Samsung Group HR Global Experienced Employee Course - GEEC
2013/5/6	"History & Vision of SAIT" - SAIT HR International Employees Training
2013/5/9	"Samsung R&D Strategy & Innovation" - SEC HRDC Global Directors Course
2013/5/21	"Samsung R&D Strategy & Innovation" - SEC HRDC Core Talent Program
2013/5/29	"Building high-performance teams" - SEC HRDC - Global Leadership Academy at HRDC
2013/6/4	"Samsung R&D Strategy & Innovation" - SEC HRDC Core Talent Program
2013/6/7	"Samsung R&D Strategy & Innovation" - SEC HRDC Global Managers Course
2013/6/11	"Samsung R&D Strategy & Innovation" - 2013 R&D Leaders Forum
2013/6/17	"Pride in Samsung" - Global HR New Global Hire Orientation (HRDC)
2013/7/2	"Samsung R&D Strategy & Innovation" - 2013 R&D Leaders Forum
2013/7/15	"Pride in Samsung" - Global HR New Global Hire Orientation
2013/8/20	"Samsung R&D Strategy & Innovation" - 2013 New Global Manager Hires
2013/8/20	"Pride in Samsung" - Global HR New Global Hire Orientation
2013/9/3	"Trends in Innovation & Technology" - Samsung Managers Academy
2013/9/4	"Samsung R&D Strategy & Innovation" - 2013 New Global Manager Hires
2013/10/21	"Pride in Samsung" - Global HR New Global Hire Orientation
2013/10/22	"Samsung R&D Strategy & Innovation" - Samsung New Graduate - New Hire Orientation
2013/11/1	"Pride in Samsung" - SHRDC Global Experienced Employee Course - New Global Hire Orientation
2013/11/5	Technical Chair Samsung Tech Conference 2013 - Future IT Forum - Convergence in Mobile Health
2013/11/18	"Pride in Samsung" - 2013 New Global Manager Hires
2013/11/25	"Samsung R&D Strategy & Innovation" - Core Talent Program
2014/03/18	"Samsung R&D Strategy & Innovation" - SELC New Hires Orientation
2014/04/1	"Bio-inspired concepts for computer vision & imaging processing" - SAIT Imaging Device Lab seminar
2014/04/15	"Samsung R&D Strategy & Innovation" - SELC New Hires Orientation
2014/10/21	"Samsung R&D Strategy & Innovation" - SELC New Hires Orientation
2014/11/4	Panel Moderator - Samsung Tech Forum, Mobile Health Panel
2015/03/6	"Protein Electrodynamics & Terahertz Medicine", Mobile Healthcare Lab Research Seminar

SAMSUNG ADVANCED INSTITUTE OF TECHNOLOGY (SAIT) CTO MOT JOURNAL CLUB (INTERNAL)	
2011/03/15	On Innovation: "Global Innovation 1000: How the Top Innovators Keep Winning" and "The 5 Myths of Innovation"
2011/03/29	Crafting R&D Project Portfolios
2011/04/12	Strategy: Steps to Developing Scenarios
2011/04/26	Building Your Company's Vision, Harvard Business Review
2011/08/23	Medical Devices: Managing the Mismatch – WHO Priority Medical Devices Project
2011/09/06	Disruptive Innovation & Healthcare
2011/10/25	Neuromorphic Systems Workshop: Conference Debrief
2011/12/13	Lean Knowledge Work
2012/07/03	Roadmapping for Technology Strategy
2012/10/23	EMBC 2012 Highlights: Conference Report
2012/12/18	The Future of Medical Imaging (RSNA'12 Conference Report)
2013/02/28	SPIE Photonics West - BIOS & SNU THz-Bio Workshop Conference Report
2013/03/20	The Laws of Technological Progress: Overview, Recent Results, Implications
2013/04/11	Megatrends: Definitions, Implications, Framework
2014/07/31	Best Practices in Industry-University Collaboration