

The Oklahoma School of Science and Mathematics Foundation presents



2018

Celebrating the transformation of student lives through advanced academics

Benefiting the OSSM Faculty Endowment

Thursday, April 5, 2018
Oklahoma School of Science and Mathematics

Honoring "Awesome" OSSM Alums

Jihan Ahmad Abdul-Haqq, M.D. Pediatrician, Peace of Mind Pediatrics OSSM Class of 2000

Will Atkins, M.S. (Computer Engineering)

Cybersecurity R&D—Principal Member of Technical Staff,

Sandia National Laboratories

OSSM Class of 2001

Ryan Dennis, M.D.

Founder, Linear Health Sciences MedTech Innovator, OU Price College of Business OSSM Class of 2001

Steven Meier, Ph.D. (Chemical Engineering)
Section Head, Engineering Physics, ExxonMobil
OSSM Class of 1998

Keynote Speaker

Gregory A. Petsko, DPhil
Arthur J. Mahon Professor of Neurology and Neuroscience and

Director, Helen and Robert Appel Alzheimer's Disease Research Institute,
Weill Cornell Medical College
Adjunct Professor of Biomedical Engineering, Cornell University
Gyula and Katica Tauber Professor of Biochemistry and Chemistry, Emeritus, Brandeis University
Adjunct Professor of Neurology, Harvard Medical School
Past-President, American Society for Biochemistry and Molecular Biology
President, International Union of Biochemistry and Molecular Biology

Introductions and Remarks by

Mr. Joel Champlin, Chairman, OSSM Foundation Mr. Dan Little, Chairman, OSSM Dr. Frank Y. H. Wang, President, OSSM

Welcome & Introductions

Joel Champlin Chairman, OSSM Foundation

Invocation

Rev. Sara Marie Bodenstein Professor of Mathematics, OSSM (OSSM Class of 1994)

Dinner

"Awesome" Alumni Highlights

Scott Meacham Master of Ceremonies

Keynote Address

Gregory A. Petsko, D.Phil.

Gift Presentation

Dan Little, Chairman, OSSM

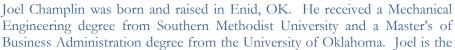
Building the Future

Frank Y. H. Wang, Ph.D., President, OSSM

Closing

Mr. Meacham

Joel Champlin
President, Champlin Resources
Chairman, OSSM Foundation
Host





CEO of Champlin Resources and Roaring Fork Energy. He has been actively involved in a variety of nonprofit efforts focusing on education and health care in Oklahoma.

Joel and Kelly have been married for 34 years and are proud parents of four boys, three daughters-inlaw (soon to be four) and three grandchildren with hopefully more to come. Joel is deeply honored to have served on the OSSM Foundation Board of Trustees since 1999.

Scott Meacham
President & CEO, i2E, Inc. (Innovation to Enterprise)
Master of Ceremonies

As President and CEO, Scott Meacham leads i2E's efforts to create jobs in Oklahoma through the development of and investment in small businesses with the potential for growth.

Scott also serves as an advisory director for the Crowe & Dunlevy law firm. He served as the 17th State Treasurer of Oklahoma, an office he held from June 2005 until January 2011. In addition to his duties as State Treasurer, Scott served on the governor's cabinet as Secretary for Finance and Revenue from January 2003 until January 2011.

He formerly served as Chief Executive Officer, General Counsel and Lending Supervisor of First National Bank & Trust of Elk City. He continues to be associated with the bank as a member and secretary of the board.

Scott is a certified financial planner and has also practiced law in Clinton, Oklahoma as a partner in the Meacham & Meacham law firm.

He currently serves on the Board of Directors of the State Chamber of Oklahoma. He also serves on the Board of Trustees and the Investment Committee of the University of Oklahoma Foundation and serves on the Governor's Science and Technology Council.

Scott holds a Bachelor's degree in finance, an MBA and a law degree, all from the University of Oklahoma.

Jihan Ahmad Abdul~Haqq, M.D. Pediatrician, Peace of Mind Pediatrics OSSM Class of 2000 (Carl Albert H.S., OKC)

B.S. Biochemistry, Spellman College, 2004 M.D. Medicine, Morehouse School of Medicine, 2008

Dr. Noor Jihan Abdul-Haqq is a Board Certified Pediatrician specializing in care of youth from birth to 21 years of age. She is the owner of Peace of Mind Pediatrics located in Del City, OK.

She's a graduate of Spelman College and Morehouse School of Medicine where she was very active with various medical organizations and had opportunities to volunteer in Barbados, Dominican Republic, and Mexico. She completed her M.D. in 2008 and Pediatric residency in 2011.

Dr. Abdul-Haqq was a 2008 Humanism in Medicine awardee through the Leonard Tow Gold Foundation. She received the Practitioner of Excellence Award from Sisters United for her professional development and community service in 2010, and in 2017 she was the keynote speaker for Langston University Nursing Programs Minority Health Summit. In May she will be recognized as one of the Journal Records' Achievers under 40.

Dr. Abdul-Haqq is an active member of Alpha Kappa Alpha Sorority and Jack and Jill of America. She sits on the board for the Oklahoma ACLU and this year has served as the co-chair for the SW Section Conference. In her spare time, she enjoys spending time with her husband, Masood, and their 3 children.



Will Atkins, M.S.

Cybersecurity R&D—Principal Member of Technical Staff,
Sandia National Laboratories

OSSM Class of 2001 (Hooker H.S.)

B.S. Computer Engineering, University of Missouri-Rolla, 2005 M.S. Computer Engineering, University of Missouri-Rolla, 2007

William D. Atkins is a Principal Member of Technical Staff at Sandia National Laboratories. He conducts cybersecurity research and development, performs security assessments and evaluations of high-consequence US Government systems, and designs and tests secure

system architectures. Will has contributed to over 50 major projects to date, and served as the program lead for the Information Design Assurance Red Team from 2012 to 2017. His professional interests include advanced network design, adversary modeling and emulation, disruptive thinking, and consequence analysis. Will resides in Albuquerque, New Mexico, and enjoys mountain biking, skiing, and various other outdoor activities.

Ryan Dennis, M.D. Founder, Linear Health Sciences MedTech Innovator, OU Price College of Business OSSM Class of 2001 (Macomb H.S.)

B.A. History, Philosophy and Social Studies of Science and Medicine,
University of Chicago, 2005
M.D. Medicine, University of Oklahoma College of Medicine, 2009
M.B.A. Candidate, University of Oklahoma Price College of Business,
2017-Present



Growing up as an only child on a pig farm in rural Oklahoma combined a natural work ethic with hands on animal medicine experience, planting the seeds that would eventually blossom into a career path. Raised in relative poverty, Dr. Dennis strove to maximize his options by embracing intellectual curiosity across a spectrum of disciplines, not only in medicine but also in business. During his time at OSSM, he was awarded the Rees Venture Scholarship after submitting a business plan for his invention of an automated exhaust system that reversed the flow of existing ventilation systems in the event of a structural fire to reduce smoke burden. As an undergraduate at The University of Chicago, he earned a Howard Hughes Computational Neuroscience Grant, and was also named a Howard Hughes Research Fellow for his work on ion channels in cardiac electrophysiology. Concurrently, he was employed by the Booth School of Business to write case studies focused on the psychology of negotiation for their prestigious MBA program.

Upon returning to his native Oklahoma for medical school, he was twice published in the American Journal of Surgery and is first author on the paper that created a scoring system for blunt trauma induced ventral hernias, which has since been adopted as the standard worldwide. Following completion of an Internal Medicine residency at OU Health Sciences Center, he began his career in Hospital Medicine at St. Anthony Hospital. He quickly introduced a new practice model that led to record-breaking productivity. This year, he leveraged that model by founding and serving as CEO of Midtown Concierge Admissions, an independent and novel hospital medicine company focused on physician and patient satisfaction through technology enhanced ease of access, communication, and continuity of care. Dr. Dennis is also Founder and CEO of Linear Health Sciences, a medical device company stemming from his patented invention of a safety release valve that prevents medical tubing from being inadvertently dislodged from patients. The company has garnered global accolades including being selected as one of the top 10 medical technology startups in the world.

He considers his crowning achievement to be his marriage to his patient and supportive wife MacKenzie, along with his two sons, Weston (3) and Jack (1). In his free time, Dr. Dennis is an avid instrument-rated private pilot and particularly enjoys flying friends and family to watch his beloved Sooner Football team at every away game.

Steven Meier, Ph.D. Section Head, Engineering Physics, ExxonMobil OSSM Class of 1998 (Chickasha H.S.)

B.S. Chemical Engineering, Rice University, 2002 Ph.D. Chemical Engineering, Northwestern University, 2007

Steve Meier is a scientist and section head of Engineering Physics at ExxonMobil Research and Engineering, Corporate Strategic Research. His research interests are aimed at scientific advances for exploration, development, and production of energy resources. Meier is thankful to his family for the encouragement to leave home a bit early to attend



OSSM for his last two years of high school. Thanks to the challenging coursework at OSSM and a mix of scholarship and financial aid, he was able to attend Rice University for his undergraduate education. Meier then went on to Northwestern for graduate school where he received a NSF Graduate Research Fellowship. Today, Meier coordinates and works with multidisciplinary teams of engineers, physicists, geoscientists, and mathematicians, one of the aspects of his work he finds most rewarding. He and his wife, Lydia, have two children, Kara age 6, and Wesley age 4.

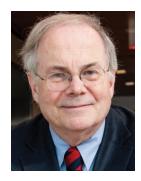
2018 Quantum Experience Awards — Oklahoma Artists Rick & Tracey Bewley

art FUSION studio

We enjoy working in many materials including glass, metal, wood and acrylic fabrication. These skills along with our ability as a husband and wife team with different and complementary abilities allow us to design and fabricate very unique art.

Our background as head of the design department (Tracey-22 years) and head of custom manufacturing and R & D (Rick - 29 years) at a large production facility along with our custom art studio and showroom (15 years) has given us the ability and confidence to design/propose/construct anything we envision.

We are both drawn to mixing materials that highly contrast each other, like glass and concrete, or acrylic and rusted steel. This dichotomy of materials leads one to examine each more closely. In particular we love to include an element of transparency so that lighting, natural or otherwise, also becomes an important part of the sculpture.



Gregory A. Petsko, D.Phil.

B.S. Chemistry, Princeton 1970 D.Phil. Molecular Biophysics, Oxford 1973

Arthur J. Mahon Professor of Neurology and Neuroscience and Director, Helen and Robert Appel Alzheimer's Disease Research Institute,

Weill Cornell Medical College

Adjunct Professor of Biomedical Engineering, Cornell University Gyula and Katica Tauber Professor of Biochemistry and Chemistry, Emeritus, Brandeis University

Adjunct Professor of Neurology, Harvard Medical School Past-President, American Society for Biochemistry and Molecular Biology Past-President, International Union of Biochemistry and Molecular Biology

Keynote Speaker

For over 30 years Prof. Gregory Petsko and his colleague, Prof. Dagmar Ringe, have pursued groundbreaking research not only on how proteins work, but how they are related to the causes of neurodegenerative diseases. They use the techniques of genetics, structural biology, and structureguided drug discovery to identify, validate, and exploit novel targets for the treatment of age-related neurodegenerative disorders such as Alzheimer's, Parkinson's, and Lou Gehrig's diseases.

Starting out as a classical literature major, Dr. Petsko graduated *Summa Cum Laude* in Chemistry from Princeton University in 1970 and received a Rhodes scholarship to Oxford University, where he completed his doctoral research in Molecular Biophysics in 1973 under the direction of Sir David C. Phillips. After a brief postdoctoral sojourn in Biochemistry in Paris with Professor Pierre Douzou, he was an Instructor and Assistant Professor of Biochemistry at Wayne State University School of Medicine (1973-1978), where he twice received a Faculty Research Award. He then moved to the Massachusetts Institute of Technology, where he served as an Associate Professor of Chemistry (1978-1985) and Professor of Chemistry (1985-1989). In 1990, he was appointed the Lucille P. Markey Professor in Biochemistry and Chemistry at Brandeis University. From 1994 to 2006, he served as the Director of the Rosenstiel Basic Medical Sciences Research Center at Brandeis University and in 1996 was appointed as the Gyula and Katica Tauber Professor of Biochemistry and Molecular Pharmacodynamics, succeeding Prof. William P. Jencks, the first holder of this chair. He also served as Chair of the Biochemistry Department at Brandeis.

Although directing a Center with 16 faculty and 200 staff occupied a considerable chunk of his time, Professor Petsko always carried a full teaching load and was proud of having taught freshman chemistry continuously, with only time off for sabbaticals, for some 25 years. He also taught critical thinking, general biochemistry, enzyme mechanisms, protein crystallography, and the history of the detective story. His courses were consistently among the highest rated at Brandeis.

Dr. Petsko has received numerous awards, including the Sidhu Award and the Buerger Award of the American Crystallographic Association for outstanding contributions to X-ray diffraction, the Pfizer

Award in Enzyme Chemistry of the American Chemical Society in 1986, and an Alexander von Humboldt Senior Scientist Award in 1989. In 1991, he was awarded the Max Planck Prize, which he shared with Professor Roger Goody of Heidelberg for their work on the origins of some human cancers. In 1995, he was elected to the National Academy of Sciences and received a Guggenheim Fellowship. In 2001, he was awarded the Lynen Medal (shared with Professor Janet Thornton) and was elected to the Institute of Medicine (now the National Academy of Medicine). In 2002, he was elected to the American Academy of Arts and Sciences. In 2004, he shared an award from the McKnight Endowment for Neuroscience with his Brandeis colleague, Professor Dagmar Ringe. He and Professor Ringe also shared the Abram Sachar Medallion from the Brandeis University National Women's Committee in 2006. Professor Petsko is the first man ever to receive this award, which he says means he at last may be getting in touch with his feminine side. In 2010, he was elected to the American Philosophical Society, the oldest intellectual honor society in the United States, founded by Benjamin Franklin in 1743, and was also named a foreign member of the Hungarian Academy of Sciences. In May of 2011, he received an honorary Doctor of Laws from Dalhousie University in Canada.

In 2014, Dr. Petsko became the Arthur J. Mahon Professor of Neurology and Neuroscience at Weill-Cornell Medical College in New York City and on January 1, 2014, Director of the Helen and Robert Appel Alzheimer's Disease Research Institute there, a change necessitated by his wife's appointment as the new Dean of that medical school and Provost of Medical Affairs at Cornell University. Professor Petsko explains it this way: "When your wife tells you she wants you to come join the faculty of the medical school she is now leading, you finally understand just what The Godfather, Don Vito Corleone, meant by "An offer you can't refuse...."

Dr. Petsko is a co-founder of ArQule, Inc. of Woburn, Massachusetts, one of the world's leading companies in combinatorial chemistry, and serves on the boards of several other biotechnology companies, including Ironwood Pharmaceuticals, which he also helped to start, and Amicus Therapeutics. In 2007, he was elected President of the American Society for Biochemistry and Molecular Biology which, at over 12,000 members, is one of the largest scientific societies in the United States.

Dr. Petsko describes himself as overweight, out of shape, and frequently grouchy—opinions that are not all upheld by peer review. Besides his family, teaching, and his work, he says there are only a few things that he really loves: dogs; hiking through deserts, mountains and rain forests; good writing; single-malt Scotch; and high-performance cars (he usually drives, however, an ancient Jeep – something about university salaries). He also states that his greatest accomplishment is and always will be the more than 100 graduate students and postdocs that he has helped to train—a list that

includes five Howard Hughes Investigators, two members of the National Academy of Sciences, and the second woman ever to head a Max-Planck Institute in Germany.

Weill Cornell Medicine
Feil Family Brain & Mind
Research Institute

Daniel V. Little, Esquire

Founding Chairman, OSSM, 1986-Present

In 1986, Dan Little was appointed by Governor George Nigh as the first Chairman of the OSSM Governing Board and was reappointed by Governors David Walters, Frank Keating, Brad Henry and Mary Fallin. With Dan as Chairman of the OSSM Board, which he describes as the best and brightest Board in Oklahoma, and working closely for 22 years with Dr. Edna Manning and since 2012 with Dr. Frank Wang,



the Board has provided leadership to turn OSSM from an idea with no teachers, no students and no campus into one of the best academic high schools in the nation, public or private.

Dan graduated with honors from Harvard in 1965 and from the University of Oklahoma College of Law in 1968. He served as Editor-in-Chief of the Oklahoma Law Review and was selected as Outstanding OU Senior by the Oklahoma Bar Association. Returning to Madill to practice law, Dan established the Little Law Firm which has been ranked among the top 5% of law firms in the nation for many years. Dan also serves as a lifetime member of the Sarkeys Foundation Board of Directors and on the boards of the Oklahoma Medical Research Foundation, the Oklahoma Nature Conservancy and the OU Law School Board of Visitors. He also served on the University of Oklahoma Board of Regents from 1978 to 1985 and has been active in many other local and state civic organizations.

Dan is the proud father of Janna, Dana and Molly and grandfather of nine grandchildren and the grateful father-in-law of Paul Ryan, William Jackson and Dr. Mark Alcott.

Frank Y. H. Wang, Ph.D. President, OSSM, 2012-Present

Dr. Wang joined OSSM as its second president in 2012. He received his Bachelor of Arts degree in Math from Princeton University in 1986 and his Ph.D. in Pure Math from the Massachusetts Institute of Technology in 1991. As a graduate student, he co-authored a widely used high school calculus textbook. After graduation from MIT, he went to work for Saxon Publishers, Inc. and later became its President in 1994. Under his leadership, Saxon



Publishers grew to become a major textbook publisher, with 250 employees and annual sales approaching \$100 million.

In 2003, Dr. Wang left his position as chairman of Saxon Publishers to pursue his lifelong passion for teaching. He taught at OSSM and OU and started a special after-school program for middle school students in Norman, Oklahoma.

In 2006, Dr. Wang moved to Plano, Texas and ran his own education business, Wang Education LLC. In 2010-2011, he served as a teaching fellow with the Alexander Dawson Foundation Center for Excellence in Teaching and Learning. Dr. Wang has worked with teachers and students in the New York City Public Schools, Los Angeles Unified School District, Chicago Public Schools, Washington DC Public Schools, Dallas Independent School District, and numerous other schools, large and small, public and private throughout the country (as well as in Managua, Nicaragua).

Oklahoma School of Science and Mathematics

OSSM challenges students far beyond the traditional high school model. Everything at OSSM supports students' academics—from the school's residential model, **rigorous college-level curriculum**, **and largely doctoral-level teaching faculty** to required evening study halls staffed with faculty and limits on cell phones and personal internet. Students leap forward in their academic progress, and many OSSM graduates take numerous college credits with them to their chosen institutions of higher learning.

Math	Pre-Calculus I, II & III; Calculus I & II; Multivariate Calculus; Differen				
	Equations; Number Theory; Probability & Statistics; Linear Algebra;				
	Abstract Algebra; Geometries; Topology; Real&Complex Analysis; Advanced				
	Problem Solving, Foundations of Mathematics; Special Topics in Math				

Biology General Biology; General Zoology; Vertebrate/Invertebrate Zoology; Embryology; Anatomy & Physiology; Endocrinology; Histology; Genetics; Intro to Neuroscience; Plant & Soil Science; Biochemistry; Botany; Microbiology; Ecology; Molecular & Cellular Biology

Chemistry
General Chemistry I & II; Organic Chemistry I & II; Biochemistry; Chemical
Thermodynamics; Physical Chemistry, Chemistry Olympiad Prep/Directed
Study

Engineering Engineering Seminar, Robotics Engineering, Electronic Circuits, TEAM+S Competition (extracurricular)

Physics General Physics; Mechanics; Electricity & Magnetism; Thermal Physics Waves & Optics; Intro to Modern Physics; Modern Physics II; Astronomy; Topics in Theoretical Physics

Computer
Science
Intro to Computer Science; Object-Oriented Programming with Java; Data
Structures I & II; Operating Systems; Networking; Computer Architecture &
Assembly Programming; Special Topics

Humanities American Literature; World Literature; Principles of English Composition; American History; Western Civilization I & II; East Asian History; Arab Civilization; Special Topics; Foreign Languages; Fine Arts

<u>Fine Arts</u> (Robust program sponsored privately by the Kirkpatrick Foundation)

Physical Education Foreign Languages (German, French, Spanish, Japanese, Chinese & Latin)

Mentorships In any given year, approximately half of OSSM seniors are engaged in mentorships with community professionals in their areas of special interest, such as bioscience research, engineering, etc.

- Eighty-five percent of OSSM alumni are remaining in scientific, technology, engineering, and mathematics (STEM) fields for their careers!
- The fields of study and careers most chosen by OSSM graduates are **engineering** (aerospace, biomedical, chemical, civil, computer, electrical, mechanical, petroleum); **medicine**, **medical** research, and other health sciences; and other fields including computer science, technology, education, scientific research, business, and law.
- OSSM alums are employed in many of Oklahoma's finest corporations, hospitals and technical firms such as AT&T, Artificial Lift Company, Baptist Hospital, Benham Companies, Boeing, Chesapeake Energy, C. H. Guernsey, Cardinal Engineering, Chevron Phillips, Devon Energy, Ditch Witch, Dobson Communications, FAA, Hall Estill, LexisNexis, Mercy Hospital, MidFirst Bank, OG&E, Oklahoma Cardiovascular Associates, Oklahoma Center for Neuroscience, Oklahoma Heart Hospital, Oklahoma Medical Research Foundation, Oklahoma State Bureau of Investigation, SAIC, St. John Hospital, Standard Aero, Stillwater Medical Center, Tinker Air Force Base, University of Oklahoma and OU College of Medicine, University of Tulsa, World Telemetry, and many more.
- A full fourth of Tulsa's most successful start-up companies highlighted by the Tulsa World in 2012 were begun by OSSM alumni.
- OSSM students are actively recruited by the finest universities, colleges and technical institutes from across the states; however, more than half choose to pursue their higher education in Oklahoma.
- With just 27 classes graduated and some 60% of OSSM alumni living/working in Oklahoma, OSSM and its alumni/alumnae are already stimulating some \$40 million each year in economic activity in Oklahoma and this impact is increasing with every graduating class!



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\$1,000 – Magnetic Field

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Thank you for helping transform student lives through advanced academics!

Many thanks to our major 2017-2018 partners helping transform student lives through OSSM's advanced curriculum!

- The Boeing Company Underwriting new Engineering Seminar course
- H.A. and Mary K. Chapman Charitable Trust General Operating
- ConocoPhillips & Phillips 66 20 years helping train Oklahoma middle school science teachers through OSSM's Summer Science Teachers' Institute
- Devon Energy Provided Smart Boards for OSSM classrooms
- GE Foundation Underwriting the GE Summer STEM Academy
- Inasmuch Foundation Helping OSSM retain its outstanding, largely Ph.D. faculty
- Kirkpatrick Foundation Underwriting OSSM's robust Fine Arts program
- Samuel Roberts Noble Foundation Helping OSSM retain its outstanding faculty
- OGE Energy Fully sponsoring a faculty position
- OSSM Parents Association Providing a variety of enrichment activities for all current OSSM students
- Presbyterian Health Foundation Fully sponsoring a faculty position
- Sarkeys Foundation Helping train Oklahoma middle school math teachers through OSSM's Summer Math Teachers' Institute
- Simmons Foundation General Operating