

PANELIST BIOS

SPONSORED PROGRAMS

JIM IRWIN, Case Western Reserve University, Director of Corporate Research and Strategic Industry Alliances

Mr. Irwin is responsible for negotiating all elements of sponsored research and sponsored service agreements between CWRU and industry sponsors, and works closely with the Offices of Technology Transfer, Corporate Relations, and General Counsel to resolve any potential obstacles that might hinder those negotiations. He has developed and expanded corporate research alliances that result in sponsored agreements between the university and corporate sponsors and developed a portfolio of corporate proposals through collaboration with faculty and academic administrators. He is also responsible for building relationships between corporate sponsors and faculty members, such as by identifying common areas of mutual innovation and/or matching corporate sponsors capabilities and interests with university programs, priorities, and people.

Prior to joining Case, Mr. Irwin worked as an intellectual property attorney prosecuting patents, handling complex IP transactions and handling ANDA filings among other things.

GEORGE NEWKOME, University of Akron, Professor, Former VP of Research; Ohio Research Foundation, President.

Dr. George R. Newkome received his B.S. and Ph.D. in Chemistry from Kent State University. He has been on the board of numerous corporations and editorial boards as well as the author of over 510 scientific articles, 55 patents, and has edited/written over 20 scientific books. He was one of the two founders of the field of dendrimer chemistry, a form of nanoscale polymers, and is a Fellow of the AAAS, Royal Society of Chemistry, Ohio Academy of Sciences, and the National Academy of Inventors.

He started his academic and administrative career at LSU and becoming a Full Professor in 1978, and then awarded the designation of Distinguished Research Master before becoming the executive director of their Center for Energy Studies. In 1986, he moved to the University of South Florida as their first Vice President for Research with a faculty appointment in chemistry and was later named Distinguished Research Professor. He created the USF Research Foundation, which helped transform USF from an \$18M research enterprise to \$186M (2000) – it is now the 42nd largest US research university at *ca.* \$450M. This research model is the format used at most of Florida's universities. In 2001, he returned to NE Ohio as Vice President for Research and Dean of the Graduate School at the University of Akron. Currently, he is the James and Vanita Oelschlager Professor of Science and Technology and Professor in the Departments of Polymer Science and Chemistry, as well as President of the Ohio Research Foundation and the Northeast Ohio Student Venture Fund. In 2015, he was the recipient of the Docteur Honoris Causa de L'Université de Bordeaux for his contributions to international relations and chemical research. Recently, he was named the 2016 Kent State University Alumnus of the Year.

DEBORAH (DEBI) GALLOWAY, University of Cincinnati, Associate Vice President for Operations and Management.

Ms. Galloway is responsible for Sponsored Research Services, Conflict of Interest and Business Operations for the Office of Research. Debi has 32 years of sponsored administration experience in various roles from pre-award through financial close out; 24 of those years serving UC constituents. She is UC's authorized official for executing grants and contracts for externally funded research projects. She is a longtime advocate of Master Agreements and was instrumental in establishing various standard agreements for industry interactions at UC. She is currently assisting University of Cincinnati Research Institute (UCRI) in its creation and implementation of various Master Service Agreements for industry partners.

ED KRAUSE, Ford Motor Co., Global Manager, External Alliances, Research and Advanced Engineering

Mr. Krause is responsible for developing and executing Ford's global university collaboration strategy. He has responsibility for strategic relationships and collaborative R&D project portfolios with partner universities and corporations to create competitive advantage for Ford. Mr. Krause has responsibility for Ford's collaborative university research programs including strategic alliances with MIT, University of Michigan, Stanford and RWTH Aachen, several alliance frameworks and Ford's global University Research Program (URP) that has funded work at over 120 universities globally. He oversees a rapidly growing collaborative university research portfolio with university partnerships in the North America, Continental Europe, UK, China and Australia. Mr. Krause is also responsible for the government contracts team within Ford's Research and Advanced Engineering operation as well as for the Ford-Boeing Strategic Alliance and other corporate R&D based interactions. Mr. Krause joined Ford Motor Company in 1999.

Prior to joining Ford, beginning in 1988, Mr. Krause held a variety of positions at Pilot Industries Inc., a \$250M "Full Service Supplier" to the auto industry. The positions included, Materials Research Project Manager, Manager of R&D, Manager of Market Development, and Director of IT. In the technical realm, Mr. Krause led the development of composites used for electrostatic protection and hydrocarbon emission control, based on the bonding of Tefzel® to dissimilar materials, for which he was honored with first prize in the 1993 Plunkett Awards for Innovation with Teflon®. In his R&D management capacities he was responsible for formulating and executing R&D strategy, formulating intellectual property strategy, forming strategic alliances, developing an array of proprietary technologies that yielded competitive advantage and developing new non-automotive markets for proprietary technologies. As Director of I&T, he was responsible for the information technology strategy, acquisition, staffing and support for the corporation.

ED SAWICKI, Procter & Gamble, Associate Director, Global Business Development

Ed Sawicki is an Associate Director in Global Business Development at P&G. He has responsibility within the GBD transactions group for technology collaborations and partnerships, sustainability, and university relations.

Mr. Sawicki joined P&G in 1981 in R&D, and had various research roles in oral care and laundry and cleaning. During this period, Mr. Sawicki spent over a decade with responsibility for white space market development, starting up P&G's laundry business in Egypt, Turkey, India and Central & Eastern Europe. In 1997, Mr. Sawicki assumed responsibility for Purchasing. Over the next dozen years, Mr. Sawicki led teams buying ~\$700 Million of materials annually and was the global leader for P&G's corporate Community of Practice for Innovation Purchases. In 2006, Mr. Sawicki was awarded the Phoenix Award, the highest honor from P&G Purchasing, for Purchasing Excellence and contributions to the global purchasing capability. In 2008, Mr. Sawicki joined Global Business Development. During this time, Mr. Sawicki has been a member of the global sustainable materials leadership team, is P&G's lead representative to the Plant PET Technology Collaborative, leads commercial interactions for academic relations, and has been the commercial lead for many key external Connect+Develop relationships.

WORKFORCE DEVELOPMENT

DAVID WILLIAMS, The Ohio State University, Executive Dean of the Professional Colleges and Dean of The College of Engineering

Dr. Williams oversees the education of more than 10,000 undergraduate and graduate students, leads a research program that expends \$120M annually and oversees the administration of 950 faculty, research scientists and staff. He is currently leading the college through a 20% growth in tenure-track faculty.

Williams is involved in many university-industry economic development partnerships. He represents Ohio State in Washington DC on The Business Higher Education Forum and the Council on Competitiveness and he serves on the State of Ohio's Third Frontier Advisory Board and the boards of ASM International, American Lightweight Materials Manufacturing Innovation Institute), Columbus 2020, Metro Early College STEM School, EWI, Ohio Aerospace & Aviation Council, and the Transportation Research Center.

Before coming to Ohio State, Williams served as the fifth president of the University of Alabama in Huntsville from 2007 to 2011. Prior to that role, he was the VP for Research at Lehigh University in Bethlehem, PA. Williams holds B.A., M.A., Ph.D., and Sc.D. degrees from the University of Cambridge. He is a Fellow of six national and international professional societies in the areas of electron microscopy and materials.

DEBORAH L. NORRIS, Sinclair Community College, Senior Vice President for Workforce Development and Corporate Services

Ms. Norris oversees a team that is responsible for understanding the workforce needs of employers and developing a wide range of services to meet those needs. Services include consulting, assessments, and training and professional development engagements across a broad range of competencies. Deb joined Sinclair in 2006 with more than 25 years of extensive business experience including business development, strategic planning, and marketing in a variety of business environments. Deb also oversees many of Sinclair's regional and state

workforce initiatives including Unmanned Aerial Systems, Advanced Manufacturing, Fuyao, and the launch of Sinclair's first Cyber Security Technology Center, at Austin Landing.

Currently, Deb serves on the Board of Trustees of the Dayton Area Chamber of Commerce's Education and Public Improvement Foundation, Citywide Development and REDI Cincinnati. She is one of the community leaders selected to serve as one of the 88th ABW Honorary Commanders at Wright Patterson Air Force Base. In 2015, Deb was named one of the Top 25 Women to Watch by WIBN (Women in Business Networking, a Better Business Bureau Dayton/Miami Valley program). Deb is a graduate of Leadership Dayton and is a member of the Dayton Rotary. She was honored in 2015 and again in 2016 as one of the Dayton Business Journal's Power 50 - Most Influential women in the Dayton region who are driving business, government, economic development and change. In 2015, and 2016 she was named as one of Dayton's Top 100 people in Aerospace. Deb was also named a Dayton Daily News Top Ten Woman in 2006 and chosen as a "Woman of Influence" by the Dayton YWCA in 2008. Deb holds a BS and an MBA from the University of Dayton.

MATT HLAVIN, Thogus Industries, rp+m, JALEX Medical, Radiation Protection Technologies

Matt Hlavin joined Thogus Products Company in 1997, and redefined the 3rd generation family business model from a sleepy family plastic injection molding/job shop into an advanced manufacturing company. Hlavin strategically positioned Thogus as a specialty solutions manufacturing company in 1997 when the injection molding company decided to move away traditional commodity production. Hlavin and his team took this opportunity to identify new markets, applications, technologies and materials companies who needed a domestic manufacturing partner to create unique engineered solutions. In 2009, Matt again set out to re-invent Thogus. In order for Thogus to be sustainable as an American manufacturing company, Thogus had to create a business model that provided value to their customers in ways the market has not experienced. The strategy shifted to build an engineering solutions business for manufacturing of plastic products from initial concept through finished product. Thogus partnered with Universities, Community Colleges, Joint Vocational Schools/Trade Schools and high schools in this region and outside this region to identify and hire top notch talent. Thogus had zero engineers when Matt became President. Today Thogus has over 30 engineers.

Since 2009, Matt has started three new companies: Rapid Prototype & Manufacturing LLC. (rp+m), Radiation Protection Technologies, LLC. (RPT) & JALEX Medical. rp+m is an additive manufacturing (3D printing) company focused on developing new materials and processes to evolve 3D printing from a rapid prototyping process into a production process for advanced manufacturing. RPT is a lead replacement products company that eliminates toxic lead from medical and aerospace equipment. We work with clients to develop specific products that are in compliance with RoHS by eliminating toxic lead fabrications by consolidating multiple fabricated assemblies into single piece parts. JALEX Medical is a biomedical engineering & regulatory consulting company that helps fortune 500 companies, medical device distributors, start-ups, physicians, health care institutes and academic institutions design and bring new products to market. JALEX also provides consulting services specific to quality & regulatory compliance per FDA requirements. All of these companies are located in Northeast Ohio and their focus is to grow and develop a stronger economic region while offering their services to

companies across the US and internationally. Since 2009, his companies have created over 100 new jobs.

Matt was president for the plastic industry's leading organization, the Manufacturers Association for Plastic Processors, named Entrepreneur of the Year in Lorain County, Ohio in 2011, serves on the board of Cleveland State University and on advisory boards at Case Western Reserve University Think[box] & Lorain County Community College.

JEFFREY LYTTLE, JPMorgan Chase, Managing Director, U.S. Local Media and Community Engagement

Jeff Lyttle leads a team of communication managers who support the firm's media and community engagement efforts across its U.S. markets. He is based in Columbus.

Jeff joined JPMorgan Chase predecessor Bank One Corporation in 1996. In addition to his media relations and community work, Jeff led the firm's philanthropic giving across the Midwest for nearly a decade.

Jeff has been a communications and public affairs professional for 30 years. His career has included five years as a television news producer with Columbus CBS-TV affiliate WBNS-TV, and five years in public affairs with Battelle Memorial Institute in Columbus. He has also been an active freelance writer and author. He has written more than 100 articles that have been published in local, regional and national magazines. The Ohio State University Press published his book, *Gorillas in Our Midst: The Story of the Columbus Zoo Gorillas*, in 1997.

KEN MCCREIGHT, MAGNET, Vice President of Workforce and Talent Development

MAGNET is the Northeast Ohio affiliate for the national Manufacturing Extension Partnership (MEP) program serving 18 counties in northeastern Ohio. Ken is in charge of MAGNET's Workforce and Talent Development (WFTD) team which provides the workforce development and talent management services NE Ohio manufacturers need to grow their businesses. He works with manufacturers to provide funding and program support by serving as an intermediary connecting them with strategic workforce partners.

Prior to joining the team at MAGNET, Ken was the Vice President of The National Tooling and Machining Association ("NTMA"). While at the NTMA, Ken developed NTMA-U, the nation's only DOL nationally approved on-line Precision Machine Trades Apprenticeship program that carries 21 articulated college credits towards an Advanced Mechanical Engineering Technology degree.

Prior to joining the NTMA, Ken was the Dean of Science Technology, Engineering, Math, and Workforce Development at North Central State College where he guided his division in becoming a SpaceTEC Center of Excellence.

In September of 1986 Ken joined Cuyahoga Community College as a Program Manager, and Professor in the Workforce Development Division. Ken spent twenty-two years with Cuyahoga Community College where he was instrumental in the development of curriculum for the

Associates of Applied Technology degree and the Precision Machine Technology program. Ken adopted the use of a “Differentiated Classroom” which is a teaching practice that he enhanced to include the use of an “Avatar” to maximize the learning potential of his students within one classroom, at varied learning levels and abilities, while the course content is delivered at the same time on individual monitors with each student having headphones.

RAISING CAPITAL

CHERYL TURNBULL, The Ohio State University Technology Commercialization Office, Senior Director of Venture Capital, Director of Finance

Ms. Turnbull oversees the equity portfolio of 59 companies formed based on university technology. She works with portfolio companies to secure capital, talent and other resources for success. She evaluates and negotiates equity terms of agreements with start-ups and structures, negotiates and implements complex transactions and partnerships critical to securing long-term goals. Ms. Turnbull is responsible for oversight of the \$100 million investment in the university’s economic development funds including: Drive Capital, Ohio Innovation Fund, Rev1 Fund, Catalyst Fund V, Technology Concept Fund, NIT Innovations, Carmen Innovations, and the Accelerator Awards.

She helped establish the Ohio Innovation Fund, a fund that invests in early-stage technology companies, created of Carmen Innovations, a fund that invests in follow-on offerings of our portfolio companies and applied for TVSF grants from Third Frontier.

Prior to joining Ohio State, she spent 16 years with private equity and venture capital firms in management roles.

JOHN D. BAIR, The Ohio State University, Executive Director, College of Engineering’s Center for Design and Manufacturing Excellence

John D. Bair an accomplished entrepreneur was the co-founder of Pinnacle Data Systems (PDSi), Inc. a full product lifecycle diversified integrated computer Systems Company focusing on designing, commercializing, manufacturing and supporting technology that integrated into Fortune 100 and 500 OEM product lines. Under his leadership he took the company public in 1996(Nasdaq: PNS) and PDSi grew to \$90Million in annual revenues. He served as the President, CEO, CTO and Chief Innovation Officer and as the Chairman of the Board of Directors since 1996. PDSi was acquired in early 2012 by Avnet Inc., a \$25Billion technology distribution company and Mr. Bair served as Sr. Vice-President Avnet Lifecycle Solutions, Global from 2012 – 2014. Currently he is serving as the Executive Director of the College of Engineering’s Center for Design and Manufacturing (CDME) Excellence focusing on technology product ideation, design and commercialization.

Previously Mr. Bair served as chair of the College of Engineering’s External Advisory Committee., bringing a particular expertise in the areas of engineering, design, operations, strategic planning, and the technology industry.

PAUL JACKSON, Development Services Agency and Ohio Third Frontier, Senior Manager, Entrepreneurship & Venture Investments

Mr. Jackson and his team manage over \$350M in active Ohio Third Frontier grants that focus on business/university partnerships, providing entrepreneurial services, major research centers, pre-seed funding, and technology transfer and commercialization. In particular, Mr. Jackson manages the Entrepreneurial Services Program (ESP), which, through its regional affiliates provides high-value services and resources to advance early stage Ohio companies in order to create new Ohio jobs, attract professional investment capital and generate product sales. He also directly manages the Technology Validation and Start-Up Fund (TVSF), a program that provides grants to transition technology developed by Ohio institutions of higher education and other nonprofit research institutions into the marketplace through Ohio start-up companies.

Prior to joining ODSA, Mr. Jackson had been a study director with the Aeronautics and Space Engineering Board of the National Academies. As a study director, Mr. Jackson managed several large space policy studies for NASA as well as committees to review proposals submitted to numerous competitive Ohio Third Frontier programs. These proposal evaluations provided recommendations to the Ohio Third Frontier for spending over \$200 million in state funds for technology based economic development.

WILL INDEST, Draper Triangle Ventures, Managing Director

A native of New Orleans and proud resident of the Midwest for his adult life, Will's career spanned companies big, small and new, as well as a short stint in government prior to joining DTV in 2013. Before working at Draper, Will managed TechColumbus' investment and entrepreneurial mentoring arms, including Ohio TechAngels, overseeing over 70 investments in early stage tech companies. Earlier in his career, Will led the formation of the \$150M Ohio Capital Fund, a fund of funds, and founded a process control equipment startup. His young entrepreneurial pursuits included the usual lawn mowing and lifeguarding, but were perhaps capped by his founding of the Notre Dame Student Cake Service, which funded most of his college tuition.

TOM WALTERMIRE, Vadxx Energy LLC, Chairman

Tom Waltermire is the retired Chairman and CEO of PolyOne Corporation, an international polymer company, based in NEOhio. He has also served in executive positions with BF Goodrich and as CEO of The Geon Company, a predecessor to PolyOne. After leaving PolyOne, Mr. Waltermire served for several years as CEO of Team Northeast Ohio (Team NEO), a regional private-sector-led economic development organization that attracted over 100 new business operations to the region during his tenure. Mr. Waltermire's education includes a B.S. in Biological Sciences from The Ohio State University and an MBA from Harvard University.

Today, Mr. Waltermire is an active angel investor and serves on the boards of six early stage companies, along with numerous non-profit civic and economic development organizations. He is an Executive Committee member of the North Coast Angel fund. Tom was appointed by three Ohio governors to the Third Frontier Advisory Board from inception to 2015.

TECHNOLOGY TRANSFER

DIPANJAN “DJ” NAG, The Ohio State University, Associate VP of Technology Transfer

Dr. Nag recently joined The Ohio State University as the Associate Vice President of Technology Transfer spearheading the technology commercialization initiative for the university. DJ is part of the Corporate Engagement Office, the university arm that facilitates technology commercialization, corporate engagement, and economic development. Previously he was an entrepreneur and successfully launched a number of companies in the intellectual property strategy and medical devices space. From 2009-2012 he was the Executive Director, Office of Technology Commercialization, at Rutgers University where he successfully led the overall commercialization efforts from a \$430M research budget, placing Rutgers in top 10 rank for start-ups. DJ was a Vice President at ICAP Ocean Tomo, a subsidiary of ICAP Plc, a \$2B+ company. Prior to that as a Director at Ocean Tomo he led private sales and auctions of patents. He led technology transfer as Director of Operations and Interim Assistant Vice Chancellor for Technology Development at the University of Nebraska-Lincoln. He served on the Board of AUTM as the Vice President for Professional Development (2012-2014). In 2005 he received the prestigious Howard Bremer Scholarship in technology transfer. He is currently an adjunct faculty member at Rutgers University and visiting Professor at Shizuoka University. He is a well renowned speaker and has delivered keynote addresses in Japan, Poland, Brazil and many other countries.

GEOFFREY PINSKI, University of Cincinnati Technology Accelerator for Commercialization, Director

Mr. Pinski oversees the day-to-day management of UC's intellectual property portfolio ranging from management and marketing of disclosures to developing and negotiating appropriate licensing terms for license agreements. He joined the Intellectual Property Office in January 2005 as an extern while enrolled in the University of Cincinnati College of Law. Upon successfully graduating law school in May 2006, he moved from extern to licensing associate, responsible for managing material transfer agreements and non-disclosure agreements. His background in the physical sciences was established while earning a BS in Physics, with high honors, from UC.

WILLIAM FULLER, BioEnterprise, CEO-in-Residence

Bill has more than 18 years' experience in licensing and business development – and has been on both sides of the negotiating table as both licensee and licensor. His early career was in tech transfer at Kent State, the Cleveland Clinic, and a government contractor. From there he transitioned into the private sector and has held executive positions with both startups and multinational companies. Bill was global head of business development for DSM, a Dutch based market leader in biomaterials. At DSM, Bill helped design and implement a licensing business model that took them from a \$5M R&D group to a \$300M division in just five years. Recently Bill was founding CEO of Centerline Biomedical a spinoff of the Cleveland Clinic where he raised several million in venture capital. He holds a BA from Capital University and an executive MBA from Kent State.

AL HAWKINS, Milo Biotechnology, Co-Founder & CEO

Mr. Hawkins has had a range of roles in translating academic innovations into start-up companies as an investor and entrepreneur in multiple geographies and settings. He is Co-founder and CEO of Milo Biotechnology, a mid-clinical stage company developing therapies for muscular dystrophy, based on technology licensed from Nationwide Children's Hospital in Columbus.

He was formerly Co-founder and Chairman of Abeona Therapeutics (NASDAQ: ABEO), a clinical stage company developing gene therapies for a range of rare diseases and VP of Business Development at BioMotiv, a therapeutics accelerator partnered with multiple pharmaceutical companies and academic institutions. Prior to those roles, Al was CEO-in-Residence at BioEnterprise in Cleveland and Director of New Ventures at Boston University, where he managed the BU venture fund and incubator. In Madison, Wisconsin, he was Co-founder and Partner in Agave Group, assisting spin out companies from Midwestern institutions, and Co-founder of TFX Bioscience.