

STEM Task Force Member Biographies

Robert Addington has a 30-year history of large-scale success in the energy business. He and his brothers have built several of the largest independent coal companies in the U.S. For almost as long as he's been in the mining business, Addington has been working on and investing in alternative energy technologies. One of the companies he owns and manages is commercializing a breakthrough approach to coal and biomass gasification, trademarked Hymelt®. Another of his companies, DTX Technologies, is the developer of DTX Oil's innovative process to reclaim/re-refine used lubricating oil. Addington also has helped to form or acquire and manage successful companies engaged in municipals waste landfills, oil and gas exploration and production, mining equipment design and commercialization, and gold exploration and mining. Addington has served on the advisory boards of the National Coal Foundation and the Kentucky Energy Policy Board and continues to serve on the board of the University of Kentucky Center for Applied Energy Research. He has a bachelor's degree in mathematics and industrial technology from Morehead State University.

Dave Adkisson is the president and CEO of the Kentucky Chamber of Commerce. He is a graduate of Georgetown College and earned his master's degree in ethics from Harvard University. He began his career with the Owensboro Chamber of Commerce first as project manager and then as the executive vice president. Adkisson served two consecutive four-year terms as the mayor of Owensboro where he led the effort to revitalize Owensboro's downtown, created a performing arts complex, developed the MidAmerica Industrial Airpark, recruited several new industries, expanded the city's parks and bikeways, and developed a new bridge linking Kentucky and Indiana across the Ohio River. During his 20 years of service in Kentucky, Adkisson has held several statewide leadership posts, including chair of the Kentucky Advocates for Higher Education, president of the Kentucky Chamber of Commerce Executives, co-founder of Leadership Kentucky, and chair of the Kentucky Center for Public Issues. Adkisson currently sits on the board of the Kentucky World Trade Center, LexArts, United Way of Kentucky, and American Chamber of Commerce Executives and is part of the steering committee for the Partners for Kentucky's Future.

Richard Alloo is project general manager for advanced engineering at Toyota Motor Manufacturing North America. In this position, he is responsible for developing research relationships and projects for various new technologies with potential application to Toyota's manufacturing processes and products. Alloo joined Toyota in 1987 as manager of environmental affairs during the construction and start-up of the Georgetown, Kentucky manufacturing facility. He also performed various environmental consulting assignments for other Toyota manufacturing facilities throughout North America and has held a number of management positions providing oversight to construction and development aspects of automobile assembly. Prior to joining Toyota, Alloo held various engineering and environmental positions with General Motors Corporation in its vehicle assembly plants

and central office. He holds degrees in electrical engineering from General Motors Institute and law from Stanford University Law School.

Jim Applegate is the vice president for academic affairs at the Kentucky Council on Postsecondary Education. He served as the president of the National Communication Association, the world's largest association of communication scholars, and before that as president of the Southern Communication Association. Applegate was a professor of communication, department chair, and university senate chair at the University of Kentucky prior to coming to the Council. He was named an American Council on Education Fellow studying leadership practices in higher education. In each of these roles, he has led efforts to better link the resources of professional societies and institutions with public needs. He serves as a member of the Campus Compact's Consulting Corp, working directly with universities across the nation to increase their capacity to engage teaching and research. Applegate has focused his work for the last decade on promoting partnerships between postsecondary education and external constituencies to foster economic and community development working with, among others, the Carnegie Foundation for the Advancement of Teaching, Council of Graduate Schools, Southern Regional Education Board, and the Woodrow Wilson National Fellowship Foundation. He has served as a consultant and conducted over 150 lectures, seminars, and workshops for private, academic, and government organizations designed to improve communication and develop effective partnerships between agencies, colleges, and communities.

Dan Ash received his Ph.D. in experimental psychology from the University of Louisville where he was awarded the John Richard Binford Memorial Award for excellence in graduate work for the graduating class of 1988. Since then he has worked in a variety of professional settings at both the University of Louisville and Jefferson Community College, including researcher, faculty member, psychology program coordinator, chair of behavioral and social sciences, and director of Strategic Planning. He was appointed executive director of Metropolitan College at its inception in 1998, which has since established itself as a national and international model for education business partnerships. Visiting delegations from eight states, China, Russia, and Viet Nam have studied the program which has received praise-worthy coverage by a multitude of media outlets including CNN, Chronicle for Higher Education, New York Times, U.S. News and World Report, and Wall Street Journal. Ash's leadership activities have expanded since the inception of Metropolitan College. In 2003 he was named the Mayor's liaison for education and workforce development for the Louisville metropolitan region. He also was named chair of the Advisory and Planning Council of the Education to Work Initiative for public policy for the Midwestern Governors Association and the Midwestern Higher Education Compact. In 2006 he was appointed as the vice president of external affairs at Jefferson Community and Technical College and was appointed as the executive director of Metroversity, a consortium of seven postsecondary education institutions in the Louisville region.

Ann Bartosh has been mathematics consultant at the Kentucky Department of Education since 1994. Her duties in the Division of Curriculum include development of the program

of studies in mathematics, the core content for assessment in mathematics, the implementation manual for the program of studies in mathematics, and professional development developer and presenter on mathematics curriculum, instruction, and assessment. She earned her M.S. in education, secondary school mathematics, from the University of Kentucky and her B.A. in secondary education, mathematics, from Clarke College in Iowa. She has been a mathematics instructor at Lexington Community College, adjunct professor at University of Kentucky Department of Curriculum and Instruction, and a high school mathematics teacher for 20 years. She is co-author of *EMPOWER! A K-12 Intervention Guide for Teaching Mathematics*, a technical report on the remedial process in mathematics. Bartosh has served as the Association of State Supervisors of Mathematics liaison with NASA.

Gail R. Becker has been executive director of the Louisville Science Center since 1991. Nationally recognized educational programs identify the center as the most visited school field trip destination in Kentucky. Over the past ten years, the Louisville Science Center has received over \$10 million in nationally competitive grants from such groups as the National Science Foundation, National Institutes of Health, Institute of Museum and Library Services, and the Howard Hughes Medical Institute. Becker's community service includes the board of directors of the Kentucky Science and Technology Corporation, Arts and Cultural Economic Council, Main Street Association, and Louisville Committee on Foreign Relations. She is a 1993 graduate of Leadership Louisville and a member of the Rotary Club of Louisville. Nationally, she is a past president of the Association of Science Technology Centers and continues to serve on its board. Becker also has served a three-year term on the board of directors of the American Association of Museums. Becker moved to Louisville from Washington, D.C., where she worked for the U.S. Information Agency for over 20 years. She developed and produced informational, educational, and cultural U.S. government exhibitions for foreign audiences, for which she was awarded the NEA Presidential Design Award three times, in 1984, 1988, and 1992. She received a bachelor's degree in Russian language and literature from Vassar College, followed by graduate studies at New York University.

Gary Bello has 37 years of experience in manufacturing, engineering, consulting, entrepreneurship, and executive management on a worldwide basis. He currently has ownership in multiple companies in the Bluegrass employing several hundred employees. He has been active in many community service organizations for nearly four decades and currently serves as chair of Junior Achievement of the Bluegrass. Bello has served as vice president of Clark Equipment Company and president and CEO of Clark's worldwide forklift subsidiary. During this time, Bello was instrumental in the financial turnaround of the business from a \$60 million annual loss to a \$40 million profit, and worldwide forklift sales reached over \$600 million with locations around the world. Clark was a world leader in design and manufacturing with over 250 independent dealers worldwide. Prior to joining Clark in 1983, Bello worked for over 14 years with General Motors, where he became one of the youngest executives in the corporation. At the Packard Electronic Division he oversaw expansion in new product and manufacturing technology, as well as new plant start-ups in southern U.S., Mexico, and Portugal. Bello was on the team to start

the first non-union “pay for knowledge” G.M. plant in 1975. He was chief engineer for component design in 1979 during the first implementation of electronics of any significance in the operations of Detroit Diesel Allison Division, a \$1 billion (sales) 7,000 employee division with multiple plant sites for on- and off-highway transmissions. Throughout his career, Bello has been a leader in developing people, improving productivity, and promoting a total quality concept for the organizations in which he has been associated. Bello has been recognized inside and outside the workplace and has been a guest lecturer at several universities. In 1991, Bello was named Businessman of The Year in Lexington. Bello sits on the boards of the companies in which he has ownership and has served over ten years on the Lexington Bank One board and on numerous committees. Bello holds a master’s in management science as a Sloan Fellow at the Stanford School of Business and a bachelor’s degree in industrial engineering from Pennsylvania State University.

Jamie Bewley Byrd is a graduate of the University of Kentucky with a bachelor’s degree in civil engineering and minors in mathematics and physics. She began working for the Kentucky Transportation Cabinet after completing the Scholarship Program for Engineering. She works for the State Highway Engineer’s Office and handles the Research and Scholarship Program. Byrd became part of the State Kentucky Engineering Exposure Network in June 2006.

Fariba Bigdeli-Jahed was born and raised in Tehran, Iran. She received her high school diploma in mathematics and technology in Iran and traveled to the United States to pursue a degree in higher education. She earned her Ph.D. in mathematics from the University of Kentucky in 1991. She is currently an associate professor of mathematics and the chair of the Division of Mathematics and Science at Kentucky State University. She has taught a variety of undergraduate mathematics courses to diverse groups of students, including mathematics education majors. She has worked with P-12 mathematics teachers through several partnership grant projects. She is Kentucky State University’s local principal investigator for the Appalachian Mathematics and Sciences Partnership, and the mathematics consultant for the “Improving Student Learning and Teacher Content Knowledge in Middle School Mathematics” IEQ grant. Bigdeli-Jahed has been an active participant in statewide STEM policy committees, such as the Committee for Mathematics Achievement, the Mathematics Placement Policy Group, the Governor’s Task Force on Economic Status of Kentucky Women Committee on Education and Leadership, and the CPE/KDE Mathematics Alignment Team. She also has been involved in STEM volunteer groups such as the Kentucky Women in Mathematics, Sciences, Technology and Engineering Alliance and the U.S. Department of Labor Program.

George M. Binder has been the executive director for the Kentucky Society of Professional Engineers (KSPE), the American Council of Engineering Companies of Kentucky (ACEC-KY), and Kentucky Engineering Foundation (KEF) since 1993. Binder also has served on both the ACEC and the NSPE boards of directors, representing his peers from across the country. He also has served the profession at the national level on the Membership Committee and Public Relations Committee, and he continues to serve on

the ACEC Engineering Excellence Awards Committee. He has served on several NSPE committees, including a selection committee for the NSPE executive director. He has been the executive director for the Fayette County Education Association. He also worked for GTE-Kentucky, where he helped develop a Management Training Center and developed management training courses. He also has developed and operated his own company, McCoy's, a human resources training company. Binder has served as president of the Kentucky Association of Fairs and Horse Shows and as president of the Woodford County Fair. He is a graduate of Xavier University in Cincinnati and of Wheaton College in Illinois.

Keith Bird was appointed chancellor of the Kentucky Community and Technical College System (KCTCS) in February 1999 and is responsible for system wide direction of academic, student, and economic development/workforce initiatives. Under his leadership, KCTCS has successfully integrated technical and general education curricula and significantly expanded services to business and industry. He also has been instrumental in developing new initiatives in automotive manufacturing (funded by the National Science Foundation and the U.S. Department of Labor), the Kentucky Information Technology Center (funded by the National Science Foundation), and the Kentucky Coal Academy. Currently, Dr. Bird serves as director of Kentucky's Ford Foundation "Bridges to Opportunity" project, which is designed to improve access and success of low-income adults by organizing workforce and education systems around long-term comprehensive career pathways. Bird previously served as president of Central Carolina Technical College in South Carolina, and the New Hampshire Community and Technical Colleges at Claremont and Nashua. Bird received his bachelor's degree from Alma College and his master's and doctoral degrees from Duke University and was a Fulbright Scholar.

Mary Ann Blankenship is executive director of the Kentucky Education Association, which represents more than 37,000 Kentucky public school teachers, classified employees, pre-service teachers, and retired school employees. Prior to joining KEA in September 2005, Blankenship was with the Tennessee Education Association, the Maryland State Teachers Association, and the National Education Association. Growing up in Louisville and earning degrees from Georgetown College and the University of Kentucky, she taught English and French in Lexington. Among her priorities as executive director of KEA are the organization's support for new teachers, efforts to improve teaching quality, and providing the Commonwealth with a clear voice of the teaching profession.

William S. Bush received a bachelor's degree in mathematics and a master's degree in secondary education from the University of Kentucky and a doctorate in mathematics education from the University of Georgia. In 2001 he joined the faculty in the College of Education and Human Development at the University of Louisville as a professor of mathematics education and director of the Center for Research in Mathematics and Science Teacher Development. He has been the primary author on grants that have accrued almost \$30 million for Kentucky students and teachers. He has served as director of four statewide projects – the Kentucky Mathematics Coalition, the Kentucky K-4 Mathematics Specialists Program, the Kentucky Middle Grades Mathematics Teacher

Network, and the Kentucky Middle School Mathematics Academies. He also served as an Initiative Coordinator in PRISM, Kentucky's NSF-funded Statewide Systemic Initiative, as Co-PI on the Lexington Area Systemic Education Reform in Mathematics and Science, as Co-Chair of the UK Taskforce on Mathematics, Science, and Technology Education, and as a member of the P-16 Middle School Mathematics and Science Task Force. He has received funding and directs the Kentucky Middle School Mathematics Academies, Urban University Partnership for Mathematics and Science Teaching. He has co-directed the Louisville Area Science and Mathematics Alliance for Recruitment and Teacher Education Reform. Bush has been invited to several conferences sponsored by NSF on professional development and was invited to the White House to make a presentation on federal support for profession development. He has served as consultant to the Kentucky Department of Education, the Kentucky Education Professional Standards Board, the Kentucky Council on Postsecondary Education, the Prichard Committee, and Kentucky Educational Television. He recently chaired the Committee on Mathematics Achievement formed by House Bill 93.

Haridas Chandran received his bachelor's and master's degrees from Madurai Kamaraj University in Madurai, India. He earned a second master's and a doctorate in physics from Memorial University of Newfoundland, Canada. He was a post-doctoral research associate at Howard University. Currently, he is a physics teacher at Belfrey High School in Pike County and has taught physics at Pikeville College and Howard University. Chandran received the Ashland Inc. Teacher Achievement Award, the Secondary School Teacher of the Year Award from the Pike County Board of Education, and the Excellence in Teaching Award from Campbellsville University. He has served as a mentor with the National Computational Institute and a team leader with the National Computational Sciences Leadership Program. He has received a PRIDE Environmental Education Grant and a Toyota Tapestry Grant for teachers and is a contributing author on several publications.

Deborah Clayton was named commissioner of the Department of Commercialization and Innovation, formally known as the Office of the New Economy, in June 2005. Clayton formerly served as the founding executive director of the Charlotte Research Institute, a non-profit corporation established in support of the University of North Carolina at Charlotte. Clayton also served previously as the assistant director of the electron microscopy facility at the University of Alabama; co-founder, vice president and COO of a high-tech start-up firm in Chicago; and manager of operations for Argonne National Laboratory's Office of Technology Transfer. She has a bachelor's degree in biology from Tulane University and Newcomb College and a master's degree in higher education administration from the University of Alabama.

Bill Cloyd is founder and president of Newton's Attic, a not-for-profit company whose mission is to inspire young people to learn and embrace science, mathematics, and engineering. Cloyd is also owner and founder of Mark IV, an engineering company specializing in accident reconstruction with an emphasis on the physical and mathematical accuracy of the behavior of mechanical and human elements. His educational

background includes a bachelor's degree in mechanical engineering and a bachelor of art's degree in secondary science education, both from the University of Kentucky, and three years in the Georgia Institute of Technology's engineering school.

Joan Coleman became vice president of regulatory and external affairs for BellSouth in Kentucky in 2003. Coleman graduated from the University of Kentucky with a bachelor's degree in electrical engineering and earned a master's in public and private management (MPPM), from Birmingham Southern College. Coleman serves as the chair of the board for the Louisville Science Center, is vice chair of public affairs on the Kentucky Chamber of Commerce Board of Directors, immediate past president of the Kentucky Telephone Association Board of Directors, a Girl Scout troop leader, and a Junior Achievement volunteer. She is a graduate of the Leadership Kentucky Class of 2001 and is on the Leadership Kentucky Board of Directors.

Edward D. de Rosset was named Union College's 17th president in October, 2004, after serving as interim president during the previous year. His 21-year history with Union began in 1985 when he was appointed dean of students. He later served as the vice president for student development, followed by being named assistant to the president. In 1999, when Union College received a large grant from the Teagle Foundation, he led the college's efforts to explore collaborative opportunities between the college and local communities. These efforts culminated in the creation of KNOX PARTNERS, Inc., which led to the development of the Appalachian Rural Wellness Initiative and over \$15 million in planned projects. Prior to his work with Union College, de Rosset was a member of the counseling staff at Berea College and served as the dean of students and special projects director for National Business College in Roanoke, Virginia. He earned his bachelor's degree in English from Berea College and his master's in education from Eastern Kentucky University. de Rosset serves on a number of civic organizations including the Kentucky Humanities Council Board, the Kentucky Communities Economic Opportunity Council Community Action Board, the Barbourville Housing and Development Corporation.

Vince DiNoto received his bachelor's and master's degrees in physics from Indiana State University. He is a professor of physics and astronomy at Jefferson Community and Technical College and director of academic technology. In addition he works with the chancellor's office of KCTCS. Prior to coming to Jefferson he was a faculty member at Indiana University Southeast and Indiana State University. He has been involved on numerous grant projects and currently researches utilization of technology into educational delivery, contextual modularized integrated curriculum design, historical waterpower and geospatial information technology. He has been the author of numerous papers presented at professional meetings on multiple topics. He is the national GIS co-Mentor for the American Association of Community Colleges MentorLinks project.

C. Dale Elifrits is the director of pre-engineering and outreach at Northern Kentucky University's Center for Integrative Natural Science and Mathematics and holds the appointment of visiting professor of geology. He retired in 2000 as a professor of geological engineering and associate director of the freshman engineering program at the

University of Missouri-Rolla (UMR), having served 26 years on the faculty of the School of Mines and Metallurgy at UMR. He holds a bachelor's degree in chemistry and mathematics with secondary education, master's degrees in earth science and geological engineering, and a doctorate in geological engineering. Elifrits is a registered geologist in Missouri and Arkansas. His professional experience includes nine years of public school teaching in earth science and chemistry with the balance of his career in postsecondary engineering education and part-time consulting. His teaching, research, and consulting interests are in the areas of site and resource evaluation, environmental protection, reclamation of disturbed sites, solid waste management, and engineering degree program quality. He has authored or co-authored some 80 publications in these areas and in the area of engineering education.

Bonnie C. Embry received bachelor's and master's degrees and Rank 1 certification from the University of Kentucky in elementary education and curriculum and instruction. She is currently a science lab teacher at Rosa Parks Elementary School and has been teaching in elementary or middle school science classrooms with Fayette County Public Schools for 22 years. In 1992, she received a Recognition Award for Distinguished Achievement to Education from the Kentucky Department of Education. In 1997 she was named Outstanding Elementary Science Teacher of the Year and has been the recipient of the state level Presidential Award for Excellence in teaching mathematics and science six times. Embry is currently president of the Kentucky Science Teachers Association. Other areas of professional service include serving on the Science Core Content Restructuring Committee, the Content Advisory Committee for developing the science CATS assessment, consultant and facilitator at the Louisville Science Center's Summer Teacher Institute, and assessment developer for the Kentucky Association of Academic Competitions Governors Cup Competitions.

Blaine R. Ferrell is the dean of the Ogden College of Science and Engineering at Western Kentucky University, where he began as an instructor in 1978. Blaine received his bachelor's degree in biology from the University of Pennsylvania, his master's degree in biology from WKU, and his doctorate in vertebrate zoology from Louisiana State University in Baton Rouge. He also attended Vanderbilt University Medical School. He was the recipient of the L.Y. Lancaster Professorship Award and the Ogden College of Science, Technology, and Health Faculty Excellence Award. Ferrell served on the boards of the Greater Owensboro Economic Development Corporation, and the Kentucky Science and Engineering Foundation Advisory Board, and has served as vice president, president, and past president of the Kentucky Academy of Science. He has received several grants including those from the National Science Foundation and the Environmental Protection Agency.

Gregory Figgs is the director of high schools for Fayette County Public Schools. He earned his bachelor's degree in U.S. history, his master's degree in secondary education, and his Rank 1 in social studies from the University of Kentucky and his principal's certification from Eastern Kentucky University. He served as both assistant principal and

principal at Georgetown Middle School, worked at the University of Kentucky College of Education training new teachers, was the first principal in the new Scott County High School, and helped design Scott County's ninth grade center. Figgs has worked with the Kentucky Department of Education as a Highly Skilled Educator and has been a consultant with the Kentucky Department of Education's Partnership for Minority Student Achievement, the Partnership for Kentucky Schools, and in Cultural Competency with the Bethune Institute.

Linda P. France is the deputy commissioner for the Bureau of Learning and Results Services in the Kentucky Department of Education. Her duties at the department include overseeing the offices that provide policy and administrative direction for school finance, transportation, facilities, student and family support, professional development, curriculum, literacy, preschool, extended school services, special education, and other federal programs, career and technical education, assessment and accountability, data management, and the Kentucky Virtual High School. Before joining KDE, France served as superintendent of the Jessamine County Schools. She earned bachelor's and master's degrees from the University of Kentucky and a Rank 1 certification, educational administration certification, and superintendent certification from Eastern Kentucky University.

Scot Gill is a native of Kentucky and graduated summa cum laude from Transylvania University. As an undergraduate, he double majored in physics and mathematics and minored in computer science. His graduate work includes a master's degree in physics and a master's degree in secondary science education from the University of Kentucky. In 2003, Gill received the Presidential Award for Excellence in Mathematics and Science Teaching. Gill has been teaching physics at Tates Creek High School for 13 years and serves as the intramural director and student technology leadership program sponsor. Most recently Gill has been conducting a pilot program for pod-casting in the high school classroom and has received training to teach physics in the International Baccalaureate Program. Gill has been very active in several National Science Foundation programs including the congressionally recognized Modeling Workshop program which teaches a research-based methodology for helping students truly understand science. Additionally, Gill has developed STEM-related interactive problem sets for UCLA's Interactive Multi-Media Exercises (IMMEX) Web program. The IMMEX Web site offers problems specifically designed to teach problem-solving skills.

Diana J. Glenn received her bachelor's degree in biology from the University of Arkansas and her master's of education in secondary and gifted education from the University of Louisville. She has 26 years of teaching experience with the last 14 in the Hardin County School System. She currently teaches in Elizabethtown but previously taught in Arkansas, Louisiana, and Germany in the Department of Defense schools. Glenn has received many teaching awards, including the Kentucky State Middle School Teacher of the Year and the Department of Defense Schools Exceptional Performance Award.

Ronald Greenberg is senior vice president and executive director of the Cardiovascular Innovation Institute of the Louisville-based Jewish Hospital & St. Mary's Healthcare and has taught as an adjunct faculty member at several colleges and universities. He has served on the boards of the Jewish Community Federation, Indiana University Southeast, and Actors Theatre, and is active in professional organizations that include the American College of Hospital Administrators and the Kentucky Hospital Association. Greenberg has been a Bingham Fellow with Leadership Louisville. He earned a bachelor's degree at Queens College in New York and a master's degree at Columbia University. He is a member and former chair of the Council on Postsecondary Education.

Ivory J. Griskell is an assistant professor in the division of computer and technical sciences and information technology consultant for the Land Grant Program at Kentucky State University. He serves as the KSU facilitator for the National Survey of Minorities enrolled in the computer science disciplines, a collaboration with Xavier University. His research interests include information systems design, web technologies, networking, and factory automation. Prior to coming to Kentucky State, Griskell spent nearly 20 years in the telecommunications industry where he worked for major corporations and founded and managed his own information technology company. He holds management certifications from Babson College's School of Executive Education, The Project Management Institute, and The Information Technology Infrastructure Library. Griskell is a recognized member of the International Who's Who of Information Technology. His other affiliations include Partners-In-Education, Junior Achievement, SECME, and NASA EPSCoR.

Cathy Gunn serves as the dean of the college of education at Morehead State University. Previous to this appointment, Gunn was the executive director of the North Central Regional Educational Laboratory at Learning Point Associates in Naperville, Illinois, and the director for the NCREL Center for Technology. Gunn was the founding director of the Illinois Virtual Campus where she was instrumental in leading the creation of student support centers in Illinois' community colleges and universities. She has over 30 years of teaching experience that includes 20 years in K-12 settings and 14 years in higher education at North Arizona University and the University of Illinois. Gunn has dual undergraduate degrees in special education and elementary education from Illinois State University, a master's degree in educational administration from the University of Illinois, and a doctorate in curriculum and instruction with an emphasis in reading literacy and instructional technology from the University of Oregon. Gunn's research has focused on teachers, technology integration, online learning, and planned change. Gunn has written 41 grant proposals, 23 of which have been funded at almost \$5 million. She is recognized internationally and has been a consultant for the United Nations Educational, Social, and Cultural Organization, advising and working with 15 universities in the Middle East on Technology and online teaching pedagogy. Gunn has also advised in the development of information and communication technologies in Pacific Asian countries and distance education in Scandinavia.

John R. Hall is retired chairman and chief executive officer of Ashland Inc., and has long been a leader in education as well as business and civic affairs. He is a member and former president of the board of trustees of Vanderbilt University, where he was co-captain of the football team and graduated with honors. He also is a member of the board of curators of Transylvania University, one of several Kentucky institutions, public and private, which has granted him honorary degrees. He is chairman of the Commonwealth Fund for Kentucky Educational Television and a former chairman of Leadership Kentucky. He is former chairman and councilor for life of The Conference Board and a former member of the board of directors of the Federal Reserve Bank of Cleveland. Hall is a member of the Council on Postsecondary Education.

Sarah (Sally) J. Hamilton is the deputy secretary and chief of staff of the Education Cabinet. Hamilton has worked in Kentucky state government since 1975 and has included positions at the Department of Local Government, Department of Economic Development, Finance and Administration Cabinet, Governor's Office, Department of Education, and Kentucky Educational Television. She earned a bachelor's degree in German at Chatham College in Pittsburgh, Pennsylvania, and a master's degree and a doctorate in German from the University of Kentucky. She also has completed master's level classes in public administration at the University of Southern California. She taught German as a teaching assistant at the University of Kentucky including one year in Germany with the University of Kentucky Heidelberg West Germany Scholarship. Among her academic and professional achievements are a Fulbright Travel Scholarship, University of Kentucky Dissertation Year Fellowship, and the Department of Housing and Urban Development Intergovernmental Management Scholar Program.

Allyson Hughes Handley is senior policy advisor for postsecondary economic development at the Council on Postsecondary Education. Previously, she was the secretary of the Governor's Executive Cabinet. Handley earned her bachelor of arts degree from the University of Western Ontario and holds master's and doctoral degrees in education from The Johns Hopkins University in Baltimore, Maryland. Prior to coming to Frankfort, she was president of Cogswell College, an engineering and arts institution located in Sunnyvale, California. She was the first woman to serve as president of Midway College, Kentucky's only women's college. Handley has held faculty appointments at The Johns Hopkins University, National University, the University of San Diego, and McGill University in Montreal, Canada. She served as vice president for development and alumni relations as well as dean of the school of education and human services at National University. Throughout her career, Handley has actively promoted the alignment of education and workforce initiatives and has provided leadership in developing public-private partnerships between higher education and the business sector to promote local and state wide economic development.

Elaine Harrison is the student technology leadership program coordinator for the Kentucky Department of Education. She received bachelor's, master's, and education specialist degrees from the University of Kentucky as well as a Rank 1 certification. She

was a classroom teacher for 26 years and has been with the Kentucky Department of Education for the last seven years. As the STLP coordinator, she is able to empower students across the state to use technology to learn and achieve in STEM disciplines. Harrison is the author of several articles.

Blake Haselton is the executive director of the Kentucky Association of School Superintendents (KASS). He formerly served as superintendent of the Oldham County School District with prior experience as principal, director of guidance, guidance counselor, athletic director, coach, and biology teacher, all at Oldham County High School. Haselton is a graduate of Western Kentucky University where he earned his bachelor's degree in agriculture, master's degree in secondary education/counseling, and education specialist degree in school administration. Haselton earned his doctorate in education leadership and organization development from the University of Louisville. He has been recognized by KASSP as Kentucky Secondary Principal of the Year, KASS as Superintendent of the Year, and by KSBA (F.L. Dupree Award) and KASA (William Nallia Educational Leadership Award) for outstanding leadership. In addition to KASS, Haselton also has a faculty appointment as "Superintendent in Residence" at the University of Louisville where he teaches courses in school administration, finance, human resource management, and the superintendency.

Stephen Henderson is currently vice president for education programs at the Kentucky Science and Technology Corporation. He was co-author and serves as the co-principal investigator for program implementation for the Appalachian Mathematics and Science Partnership Project, an NSF funded program for improving science and mathematics education in the Appalachian region of Kentucky, Virginia, and Tennessee. He also serves as project director for the Appalachian Rural Systemic Initiative, a six-state project serving high-poverty school systems in Appalachia. An Illinois native, Henderson has been a Kentucky educator since 1971, following high school biology teaching assignments in Michigan and Virginia. His professional experience spans primary through graduate school as both a teacher and school administrator. He served as a professor of science education and director of the Model Laboratory School at Eastern Kentucky University, was associate superintendent for instruction with the Kentucky Department of Education and, just prior to joining the Kentucky Science and Technology Corporation, served as executive director for the Central Kentucky Education Cooperative at the University of Kentucky where he also taught elementary science methods courses. Henderson earned his undergraduate degree, with a major in botany, at Eastern Illinois University and earned both the master's and doctorate degrees in science education from the University of Virginia.

Jeff Hoover was elected to the Kentucky House of Representatives in 1996 and is currently serving his fifth term representing the people of Clinton and Russell counties and a portion of Pulaski County. Hoover was first elected to a leadership position in 1999 when, after just one term in the House, he was chosen by his colleagues to serve as House Minority Caucus Chair. In January of 2001 he was elected without opposition to serve as House Minority Floor Leader and has been reelected to that position for three terms

without opposition and continues to serve in that capacity. Hoover is a graduate of Centre College and the Cumberland School of Law, and is a member of the American and Kentucky Bar Associations with private practice offices in Jamestown and Columbia.

W. James Host retired in October 2005 as secretary of the Commerce Cabinet for the Commonwealth of Kentucky. He is the former chair and CEO of Host Communications, Inc. which he founded in 1972. The company became a subsidiary of Bull Run Corporation in December 1999, and Host stepped down as CEO in 2001. Host is a graduate of the University of Kentucky and at age 29 became the youngest member of the Kentucky Governor Louie B. Nunn's cabinet as commissioner of the Department of Public Information and then commissioner of the Department of Parks. He was named to the University of Kentucky Distinguished Alumni Hall of Honors and Kentucky's Athletics Hall of Fame. He received one of Kentucky's top civic awards, Kentuckian of the Year, from the Chandler Foundation. In 2003 he received the Lifetime Achievement Award from the University of Kentucky School of Journalism and Telecommunications. In 2004 he received the Rural Kentuckian of the Year Award given by the Rural Electric Cooperative of Kentucky. Host currently is a member of the Executive Committee of the International Basketball Hall of Fame, is serving as chair of the Louisville Arena Authority, and is the chair of the World Equestrian Games coming to Kentucky in 2010.

Darrell Ishmael is community and business development manager for East Kentucky Power Cooperative in Winchester. He is involved in various aspects of economic development statewide including business recruitment, business retention and expansion, tourism development, education initiatives, and working with communities to enhance their economies. He is very active in the business community serving on the executive committees of the Kentucky Chamber of Commerce and Commerce Lexington as well as the boards of Leadership Kentucky and the Kentucky Association of Economic Development. Civic activities include immediate past president of the Lexington Rotary Club, founding board member of the Lexington Dream Factory, and founding board member and current vice-president of the Toyota Bluegrass Miracle League. He recently served on the Kentucky Chamber's Business Forum on Education Task Force.

Brenda C. Jackson is the immediate past president of the Kentucky School Boards Association. She is a graduate of Kentucky State College (University) with a degree in business administration. She is retired from the Commonwealth of Kentucky after 34 years of service and is in her 18th year of service with the Shelby County School Board. She volunteers with the youth of the community, serving as a tutor through the Marnel C. Moorman Sr. Family Life Center, adult advisor for Shelby County youth attending the Chestnut Street UMCA Black Achievers Program, and volunteer in the school system.

Diane Johnson has been in education for 27 years, with 20 years as a high school science teacher and five years as a math/science resource teacher in Lewis County as well as a high school science teacher in Bath and Rockcastle Counties through the Appalachian Rural Systemic Initiative. Currently, Johnson is an instructional supervisor for Lewis County Schools and assists with the Science Leadership Support Network and a

Science Alliance through KDE and PIMSER (Partnership Initiative for Math and Science Education Reform). She received her bachelor's degree in biology and chemistry and master's degree in biology from Morehead State University, a master's degree in administration from MoSU, and is currently completing her doctorate in science education at the University of Kentucky. She is a past president of the Kentucky Science Teachers' Association, has served on numerous statewide committees for testing, writing, and standards setting in science, is a co-author of three chapters in the recently published *Active Chemistry*, has conducted over 200 professional development sessions regionally, statewide, or at national conferences, and participated in the Toyota International Teacher Program. Johnson has collaborated with university personnel from Morehead State University, Eastern Kentucky University, Transylvania University, and the University of Kentucky to deliver standards-based professional development to hundreds of elementary through high school teachers in eastern Kentucky with an emphasis on developing content and pedagogy. Her research passion is focused on conceptual development of fundamental chemistry and the use of research and data to inform instruction and curriculum development. Johnson is passionate about the need to develop scientifically literate students and the role of K-12 education in that process.

Michael Karpf received both his undergraduate and medical degrees from the University of Pennsylvania. After an internship in medicine at Johns Hopkins Hospital, he served as a research associate in the Laboratory of Immunology at the National Institutes of Health. Before coming to the University of Kentucky as the executive vice president for health affairs, he was associated with the University of Pennsylvania, Miami Veteran Administration Hospital, the University of Pittsburgh, Allegheny Health Systems and the University of California, Los Angeles. Karpf's academic interests have been in developing and evaluating innovative educational and clinical programs. He established the Primary Care Training Residency and the General Medicine Fellowships at the University of Pittsburgh. At UCLA and at the University of Kentucky he has been instrumental in establishing a Center for Patient Safety and Quality and the Ethics Center. Karpf had been involved in many civic and professional organizations, including chairman of the Pennsylvania's Statewide Healthcare Coordinating Committee a member of the California Governor's Task Force evaluating Managed Care, and served on the board of directors of the Hospital Association of Southern California. Karpf is the chairman of the Advisory Panel on Health Care Delivery for the Association of American Medical Colleges.

Dan Kelly has served in the Kentucky Senate since being elected in 1990, representing the 14th District of Marion, Mercer, Nelson, Taylor, and Washington Counties. He has served in leadership roles as Minority Floor Leader and as Majority Floor Leader. Kelly graduated from Texas A&M University and earned his law degree from the University of Louisville and is also a graduate of the Army Commander General Staff College. Kelly served as an Armor Officer in the U.S. Army and in the U.S. Army Reserve. His present rank is Lt. Colonel. He is a practicing attorney in Springfield.

Rodney Kelly is the director of the division of career and technical education for the Kentucky Department of Education. He holds a master's degree in vocational education

from the University of Kentucky. He was a teacher of vocational agriculture prior to joining the Department of Education as a consultant. He has served as director of agriculture education prior to accepting his current position as director of career and technical education where he provides leadership and technical assistance to 176 local school districts implementing career and technical education programs. Kelly is active in high school reform initiatives and currently serves as chairman of the board for *High Schools That Work* with the Southern Regional Education Board.

Elizabeth T. Kennan received her bachelor's degree from Mount Holyoke College, her master's degree from Oxon Oxford University, and her doctorate from the University of Washington. Kennan is president emeritus of Mount Holyoke College. She serves on the board of trustees for The Putnam Funds, Northeast Utilities, Centre College, Midway College, and the National Trust for Historic Preservation. Formerly, she has served as trustee for Notre Dame University and Hampshire College. She founded, with the Board of Education, Holyoke, Massachusetts Magnet School for Arts and Mathematics. Kennan is the former director of the Bell Atlantic Company, Talbots Incorporated, Shawmut Bank Corporation, Connecticut National Bank Corporation, Berkshire Life Insurance Company, and the Kentucky Home Life Insurance Company. She is a partner in the Cambus-Kenneth Farm, LLC.

Robert W. Kingsolver received a bachelor's degree in biology from Centre College, a master's degree in biology from Vanderbilt University, and a doctorate in ecology and evolutionary biology from the University of Kansas. His research has addressed both ecological theory and environmental science applications, including field studies of plant-pollinator interactions in the Great Plains and a three-year study monitoring the effects of improved agricultural management on stream quality in an Ohio River valley watershed. He has conducted botanical surveys of both public and private lands in Kentucky. However, his chief concern in 20 years of teaching at the college level has been development of effective life science curricula for undergraduates. He has served as president of the Kentucky Academy of Science, an organization dedicated to research, teaching excellence, and science applications in the state. He authored *Ecology on Campus* (2006), a college laboratory manual published by Benjamin Cummings, and is currently collaborating on an environmental science textbook for Prentice Hall. He teaches ecology and environmental science courses as a professor of biology at Bellarmine University, where he also serves as dean of the School of Arts and Sciences.

William J. Kovacic is the field office director for the Lexington Field Office of the Federal Office of Surface Mining. He holds a bachelor's degree in economics from Pittsburg State University in Kansas and a master's degree in public administration from the University of Missouri – Columbia. Kovacic has worked in the field of mining reclamation for various state and federal agencies since 1969. He has worked for the Office of Surface Mining, U.S. Department of the Interior in Oklahoma, Missouri, Colorado, and now Lexington, Kentucky.

M. Joanne Lang joined the Kentucky Science and Technology Corporation (KSTC) in 1996. She currently is executive vice president and, in addition to directing ongoing corporate development, directs several initiatives under KSTC's mission, including coordination of Kentucky's knowledge-based economy Initiatives. Prior to joining the KSTC team, Lang spent over 17 years at the Kentucky Council on Postsecondary Education, serving for many years as deputy executive director for planning. Lang established the initial federal Eisenhower higher education math/science program and the on-going network of school-college partnerships throughout eastern Kentucky originally known as Destination Graduation. Lang led the creation of the Kentucky Community Service Commission by the Governor's Office to qualify Kentucky for funding under the national AmeriCorps program. Lang earned a bachelor's degree from Buffalo State College and a master's degree from the State University of New York at Buffalo.

Sarah H. Laws is the provost of Midway College and joined the faculty there in 1994. She taught mathematics, methods classes in mathematics for education majors, educational use of technology in the classroom, and student teaching supervision before being appointed the interim academic dean in July 1997. Laws served as interim vice president for academic affairs and then as the vice president for institutional research and information systems until being appointed provost. Laws has worked as a high school teacher of English and mathematics, assistant principal of a high school, principal of a junior high school, instructional supervisor, and assistant superintendent for instruction in Kentucky public schools. She also served as an adjunct professor in mathematics and graduate education for Western Kentucky University. While at Midway College, she has written and been awarded two PRISM grants relating to Kentucky public school math and science objectives and performance assessments. She is an examiner for both Kentucky Teacher Education EPSB accreditation and Commonwealth of Kentucky Baldrige Quality Assessment (CKBQA). Laws received her bachelor's and master's degrees and Rank 1 certification from Western Kentucky University with undergraduate majors in English and mathematics. Her graduate work has been in mathematics and educational administration. She received the doctorate in educational administration from the University of Kentucky.

Thomas D. Layzell is president of the Kentucky Council on Postsecondary Education. Layzell served as Mississippi's commissioner of higher education from 1995 to 2003. An Illinois native, he served as chancellor of the Illinois Board of Governors of State Colleges and Universities from 1985 to 1995. From 1976-1984, Layzell served as deputy executive director and treasurer of the Board of Governors, and from 1984-1985 as executive director of the board. Layzell worked at Governors State University in University Park, Illinois, from 1969 to 1976, advancing to the position of vice president for administration. He also served as a staff member at the Illinois Board of Higher Education from 1966-1969. Layzell earned a bachelor's degree at Millikin University in Decatur, Illinois, and both a juris doctorate in law and a master's degree in public administration from the University of Illinois in Urbana. Layzell has served as president of the State Higher Education Executive Officers, a member of the National Commission on Accountability in

Higher Education, president of the National Association of System Heads, and a member of the Council of Presidents of the Association of Governing Boards.

Brian LeClaire earned his bachelor's degree in psychology, master's in business administration, and doctorate in management information systems from Oklahoma State University. LeClaire joined Humana Inc in 1999 as vice president, information technology, and in 2002 he assumed the role of vice president and chief technology officer with responsibility for Humana's application engineering organization including enterprise knowledge management, Web application development and core processing systems. In 2005, he was named to *Computerworld's* Premier 100 IT Leaders for displaying exceptional technology leadership, fostering ideas and creative work environments, envisioning innovative approaches to business problems and effectively managing IT strategies. As chief technology officer, LeClaire is a key contributor to technology and e-business strategy development and technology innovation at Humana. Before joining Humana, he provided leadership in a variety of positions with ALLTEL Information Services, serving ultimately as vice president of product development. LeClaire formerly held progressively responsible senior leadership positions in The Prudential Insurance Company of America's Individual Insurance Group, Systems and Operations development area.

Thomas W. Lester assumed the position of dean of engineering and professor of mechanical engineering at the University of Kentucky in 1990. Prior to his current appointment, Dr. Lester served as professor and chairman of mechanical engineering at Louisiana State University, as professor of nuclear engineering at Kansas State University, as an experimental engineer in compressor development for Pratt & Whitney Aircraft at its Florida Test & Development Center, and as an engineer with the U.S. Environmental Protection Agency in Research Triangle Park, North Carolina. He has served three times as a visiting scholar at the University of Karlsruhe, Germany. Lester received his bachelor's, master's and doctorate degrees in mechanical engineering from Purdue University.

Benny Lile has spent the last 12 years with the Barren County Schools and currently is the director of instruction. The Barren County School District was named one of three national technology "Salute" districts by the National School Board Association in 2001. Lile was selected to participate in the inaugural Leadership Academy by the International Society for Technology in Education (ISTE) which brought together 25 educators from around the world to participate in the two-year program. He has served on the ISTE national panel that developed and wrote the National Education Technology Standards for Teachers (NETS). Lile is a past chair of the School Curriculum, Assessment, and Accountability Council which was appointed by the Governor to revamp Kentucky's system of testing and accountability. He has been named Outstanding Technology Leader for the state of Kentucky. He is a past president of the Kentucky Association of Technology Coordinators and the Kentucky Association of Assessment Coordinators. Lile has been a presenter at several regional, state, and national conferences. He received his bachelor's degree in agriculture from the University of Kentucky and his master's degree in education from Western Kentucky University.

G. T. Lineberry is associate dean for Commonwealth & international programs in the University of Kentucky College of Engineering and is professor of mining engineering. Lineberry holds a B.S. and M.S. from Virginia Tech and a Ph.D. from West Virginia University, all in mining engineering. Lineberry is in his 25th year on the mining engineering faculty at UK. His research interests lie in the areas of engineering education, mine excavating and bulk materials handling, and occupational health and safety. He has authored or co-authored approximately 70 journal articles, conference papers, books, book chapters, and government documents and has given over 140 conference presentations, seminars, and invited lectures. Lineberry is an investigator on a National Science Foundation/GK-12 project involving algebra mentoring in Bath and Powell Counties in eastern Kentucky and is investigator on a Ukrainian mine safety technical assistance project sponsored by the U.S. Department of Labor. Lineberry is an external member of the KCTCS Pre-engineering Task Force and has primary responsibility for college relationships with KCTCS institutions, independent colleges, and regional universities. He is a recipient of the Stefanko Best Paper Award (SME Coal Division) and is a Life Member of SME. His international administrative engagements include also college initiatives in Germany, Japan, Malaysia, Indonesia, and the Philippines.

Fran Lockwood is the senior vice president of technology for Ashland Consumer Products and The Valvoline Company. She is a chemical engineer with 30 years experience in management of research and development, planning and project management. She has led development and commercialization for hundreds of new products including aluminum canstock, satellite lubricant, automotive drive train lubricants, asphalt release, antifreeze, car waxes and related products, chemicals, industrial coatings, consumer fragrance, and others. Lockwood is responsible for new product development and product quality worldwide for Valvoline's automotive brands. She is also a member of the parent company's, Ashland, Inc., leadership team and she led the Ashland Inc. New Solutions Process, the company's process for creating new products and services, new businesses, and new business models. She has cross-trained by leading Ashland Chemical Research and Development for six months. She is the author of over 60 publications, 14 U.S. Patents, 13 non-U.S. Patents, and 13 pending patent applications. She serves on the editorial boards of several journals, has won multiple awards, and is a former board member of the American Institute of Chemical Engineers.

Sylvia Lovely has served as the executive director/CEO of the Kentucky League of Cities since 1990. She has served as the league's director of intergovernmental services, staff attorney, and lobbyist. In her capacity as KLC executive director/CEO, Lovely serves on a variety of boards and commissions in an effort to enhance and maintain the leadership role of Kentucky cities. She is a member and past chair of the Kentucky Center for Public Issues and served on the Kentucky Tax Policy Commission. She also serves as a member of the Board of the Greater Lexington Chamber of Commerce, Southern Municipal Conference, National League of Cities Advisory Board, and Bluegrass Area Development District. Lovely serves on the Executive Committee of Partners for Family Farms, as well as Treasurer of Kentuckians for Better Transportation. In 1999, she was honored as the

Appalachian Woman of the Year by Morehead State University. Lovely is a graduate of Morehead State University where she is a member of the Board of Regents. She graduated from the University of Kentucky College of Law and is an adjunct faculty member of the UK Martin School of Public Policy and Administration.

Amy Lowen has been director of education with the Louisville Science Center for 28 years. She is responsible for developing long-term strategic goals for Science Center educational programs and designing special grant-funded programs. She is the Principal Investigator (PI) for the General Electric funded "Inquire, Investigate, Imagine!" program, PI for the BellSouth Foundation funded "Kentucky Investment in Teacher Excellence" program, Co-PI for the NSF-ASCEND funded Whitney Young Scholars in Science program, and Co-PI for the NIH/SEPA funded KY H.E.R.O.S. project. Lowen holds a master's degree in anthropology from Case Western Reserve University.

Phyllis A. Maclin is currently pursuing her MBA at Western Governors University, Salt Lake City, Utah. She has several years experience in public relations, marketing, training, and sales management. She is a public school volunteer, Paducah Urban Renewal board member, and former Paducah Independent School board member. Maclin holds a bachelor's degree in communications from Western Kentucky University. She is a member of the Council on Postsecondary Education and will serve until December 31, 2009.

David Magrane holds bachelor's and master's degrees in biology from Drake University. After a two-year teaching position in the biology department at Millikin University in Decatur, Illinois, he accepted an NIH Fellowship to study at the University of Arizona in Tucson, and completed his Ph.D. in Animal Physiology. An NIH postdoctoral fellowship followed at the University of Minnesota in Minneapolis and he spent the next four years performing research in steroid biochemistry while doubling as an instructor in biochemistry at the medical school. He moved to Kentucky when he accepted a position as an assistant professor in the Department of Biological and Environmental Sciences at Morehead State University where he has been for 31 years. Currently, he is professor and chair of biological sciences. He was the recipient of the 1998 Distinguished Teachers Award for Morehead State University. His interest in education is long-standing and has included the initiation of a lab course for high school teachers to develop active labs, an innovative biology of cancer course for undergraduates which have given presentations in eastern Kentucky to over 10,000 high school students, and serving as chair of a campus wide Teacher Education Task Force to reform teacher training at MSU.

Delanor Manson is executive director of the Kentucky Office of Quality Management and joined the Kentucky Cabinet for Health and Family Services in 2004 as the deputy secretary. Prior to her employment with Kentucky State Government, Manson worked with Smith Sekman Reid, Inc., an engineering firm in Nashville, TN, as a senior health care consultant. She earned her bachelor's degree in nursing from the University of Kentucky and master's degree in health services administration from Webster University. Manson is a registered nurse, health care quality professional, certified nurse administrator, and retired Navy captain.

Tom Martin is the editor-in-chief of Business Lexington. He has been the director of communications for Kentucky House Speaker Jody Richards, House Majority Leadership, and was press secretary for Lieutenant Governor Steve Henry. Martin has a long and distinguished career in radio, working for the Associated Press, RKO, and ABC Radio Networks. Locally, he has been with WVLK and WRVG radio stations. His experience in radio has ranged from covering Desert Storm, the 1993 World Trade Center Bombing, the fall of the Soviet Union, Oval Office speeches, Watergate trials, and a substitute for Paul Harvey, to building the radio station in Georgetown and creating the alternative national public radio network as well as the programming format for the station. Additionally, he was the morning drive host/anchor on several stations.

Andrew C. Meko assumed the duties of president and chief executive officer of Associated Industries of Kentucky (AIK), the state's oldest manufacturers' trade association, in April 2000. He joined AIK in November 1999 as executive vice president. In November 2006, AIK became known as the Kentucky Association of Manufacturers. Prior to joining AIK, he spent 14 years with Ashland Inc., where he served as vice president for environmental, health, safety (EHS) and medical affairs. He joined Ashland Petroleum Company as an attorney in 1986 and was appointed vice president for environmental affairs for that division in 1988. He earned his law degree from the University of Notre Dame in South Bend, Indiana, in 1973. After graduation, he served as assistant attorney general for the State of Ohio from 1973 to 1980 before taking a position as senior environmental counsel for Sargent and Lundy Engineers in Chicago, Illinois, where he served until 1986. Meko currently serves on the board of directors of the Kentucky World Trade Center, the Kentucky Community and Technical College System, the USDOC District Export Council, the Kentucky Council on Economic Education and the Kentucky Labor-Management Conference, Inc. He is a Distinguished Fellow of Corporate Studies at Georgetown College, past board chairman of the Kentucky Chamber of Commerce, has served as chairman of the Conference Board's Chief Environmental, Health and Safety Officers Council, member of the U.S. Chamber of Commerce Environment Committee, and the American Petroleum Institute's Health, Environment and Safety General Committee. He is a past member of the Governor's Task Force on Clean Air Act Implementation and the City of Ashland Economic Development Task Force.

Billy Joe Miles is a member and former chair of the University of Kentucky board of trustees. Miles holds a bachelor's degree from Western Kentucky University. He is the president of Miles Farm Supply, Inc. and Marathon Fuels. He is also the owner of Miles LP Gas, Inc. and an officer for Miles Farms, Inc. He is a board member and past president of Central Bank & Trust Co. Miles is the chair of the National Fertilizer Retailers Council and a member of the Governor's Task Force on Agriculture. He is also a member of the Governor's Task Force on Efficiency, the National Fertilizer Association Executive Committee and the Kentucky Environmental Protective Association in the Classroom. He was president of the Kentucky Fertilizer and Agricultural Chemical Association and the Kentucky Soil Conservation Districts. Miles has served as secretary of the Kentucky Nature

Preserves and the Kentucky Soybean Association. He has been a member of the board of directors for the U.S. Canola Association and Vanderbilt University Hospital.

Lindsey Miller is currently the program manager for GE College Bound District Grant. In this role, she helps manage a four-year, \$25 million GE Foundation grant made to the Jefferson County Public Schools. The grant is designed to help improve student achievement scores in math and science, close achievement gaps, and increase the number of students entering college. Miller began her career as a Sales Rep with Burroughs Corporation in Allentown, Pennsylvania, then joined GE in Schenectady, New York, where she worked as a purchasing agent.

Deb Moessner is the vice president of sales for the Kentucky Group, Anthem Blue Cross and Blue Shield. She earned her bachelor's degree at George Williams/Aurora College and received her Executive MBA from Bellarmine University. Moessner began her work with Blue Cross and Blue Shield of Michigan holding sales and sales leadership positions in the Western Michigan region. Moessner serves on several professional and civic boards.

Elaine "Cissy" Musselman is vice chair of Risk Management Services Corporation of Louisville, where she organizes, structures, and administers self-insured plans and affinity programs for businesses, associations, and governmental entities. Musselman began her professional career in the Government Relations Office of Bristol-Myers Company in Washington, D.C. She returned to her Louisville home in 1973 to become vice president of Harris & Co., a local insurance business, where she ultimately rose to the position of president. Musselman became the first insurance broker in the United States to be computer-linked with the floor of Lloyd's of London. Musselman served as the first woman to chair the Louisville Metro United Way Campaign, the Louisville Area Chamber of Commerce, and the Greater Louisville Convention and Visitors' Bureau. Currently, her business and civic associations include being a founding member of The Committee of 200, a national association of entrepreneurial women, director of the Louisville Regional Airport Authority, and director of the Jewish Hospital St. Mary's HealthCare. Additionally, Musselman is founder of Women 4 Women, Inc., a Kentucky non-profit organization whose mission is to raise money and public awareness for programs serving women and girls.

Jan Muto is the assistant to the chancellor for technology and learning at the Kentucky Community and Technical College System central office. Her area of responsibility is academic affairs policy, which includes support for the 16 KCTCS colleges, statewide collaboration with P-16 partners, curriculum processes, and faculty issues. She has maintained contact to teaching and learning by serving as an adjunct faculty member in interpersonal communication. Prior to joining the chancellor's office, she was the chief academic officer at Madisonville Community College. Her previous positions include associate dean of instruction at Northwest College in Powell, Wyoming; assistant professor at Ithaca College in Ithaca, New York; and instructional technologist at the University of Delaware. Her publications and presentations focus on organizational communication,

popular culture, and faculty professional development initiatives. She provides communication consulting services to private sector and public sector organizations. Muto holds a doctorate in communication with emphasis in organizational communication and instructional media from the University of Utah, and master's and bachelor's degrees in communication from the University of Delaware.

Gerald A. Neal is a member of the Kentucky General Assembly, serving as Senator of the 33rd District in Louisville since 1989. Senator Neal has an extensive background in law and government. He is a practicing attorney with Gerald A. Neal & Associates. He formerly served as assistant director of public health and safety of the City of Louisville, was a hearing officer for the State Workers' Compensation Board, and worked as a juvenile probation officer. He also served five terms as chairman of the Louisville – Jefferson County Metropolitan Sewer District, has served as vice president, regional director and parliamentarian of the National Bar Association, and as president of the Kentucky National Bar Association. Neal founded the Kentucky Education Reform African-American and All Children's Caucus to have an impact upon policy and implementation of the 1990 Kentucky Education Reform Act. He is a graduate of Kentucky State University and the University of Louisville Brandeis School of Law and has undertaken graduate studies in political science at the University of Michigan.

Laura E. Owens is the secretary of the Kentucky Education Cabinet. Prior to becoming secretary, Laura served as deputy secretary of the Education Cabinet and commissioner of the Department for Workforce Investment. Before joining Kentucky state government, Owens was involved in education, workforce training, and local government issues. Owens taught on both the secondary and postsecondary level for nearly 20 years before becoming a curriculum coordinator and instructional specialist for the Barren County School District. She also served as a freelance communications consultant focusing on leadership training. From 2003-2004 she served as an elected city council member in Glasgow prior to assuming her role as commissioner. Owens is a graduate of Western Kentucky University where she earned bachelors' degrees in English and communication and a master's degree in communication. She has received the honor of being appointed by President George W. Bush to a Presidential Commission serving on The White House Commission on Presidential Scholars. Owens serves on the Education Commission of the States and the Southern Regional Education Board.

Steve Penrod is general manager of the Paducah Uranium Enrichment Plant. He joined the plant in 1979 and has held various positions. Steve graduated from Shawnee College with associate of arts and associate of science degrees and then attended Southern Illinois University where he earned his bachelor's degree in mechanical engineering. He is currently a board member at the Kentucky Chamber of Commerce, Paducah Area Chamber of Commerce, and the Greater Paducah Economic Development Council.

William L. Phillips is the dean of the College of Education at Eastern Kentucky University. Before coming to Kentucky, Phillips was the Dean of the College of Education and Human Services at Lock Haven University of Pennsylvania. While at Lock Haven,

Phillips secured more than \$10 million in external funding for a math and science education center to improve student retention and to provide professional development. He was the chair of the Department of Special Education and director of International Teacher Education at Brigham Young University-Hawaii where he created K-16 partnerships with several Pacific countries and launched the Department of Special Education. He has also taught at Eastern Illinois University. Phillips earned a bachelor's degree in special education from the University of Southern Mississippi, a master's in special education from the University of Mississippi, and a doctoral degree in special education from Southern Mississippi.

Jennifer Wells Phipps earned her bachelor's degree in elementary education from Eastern Kentucky University. She has completed her Fifth Year Program in General Education with an endorsement for Teaching High School mathematics and completed her Sixth Year Program in General Education. She has been a middle school mathematics teacher for most of the last 22 years. She holds National Board Certification in Early Adolescence Mathematics and has been the recipient of several prestigious awards including the Ashland Achievement Award in both 2005 and 2006. She was the 2005 Greater Corbin Area Chamber of Commerce Teacher of the Year and was named Who's Who Among America's Teachers in 2005. She has twice been nominated for the Presidential Award for Excellence in Mathematics and Science Teaching. She is also a member of many professional organizations and holds many leadership positions within her school.

William M. Pierce Jr. received his baccalaureate in chemistry and doctorate in pharmacology and toxicology from the University of Louisville. He served as a postdoctoral scholar at Stanford University, and joined the University of Louisville faculty in 1984. As a professor and department vice chair for graduate education, Pierce is acutely aware of issues relating to scientific and mathematics preparedness for graduate study. As a practicing scientist, he operates a multifaceted research program that requires excellent students and B.S., M.S. and Ph.D. level workers who are in short supply. As inventor and entrepreneur, Pierce has founded a biotech company with similar needs. Pierce co-chairs the University of Louisville Strategic Planning Steering Committee which is incorporating STEM issues into the strategic plan.

Jerry Pogatshnik is the dean of the Graduate School and associate vice president for research at Eastern Kentucky University. Pogatshnik received his bachelor's degree in physics from the State University of New York, College at Cortland. He was awarded his master's and doctorate in physics from the University of Connecticut. Prior to coming to ECU, he was a professor in the Department of Physics and associate dean of the Graduate School at Southern Illinois University – Edwardsville.

Larry Prichard is the retired superintendent of Carter County Schools, and now serves on the N.S.B. commission on STEM education. Prichard was the superintendent of schools in Randolph County, West Virginia, and the assistant superintendent of schools in Lincoln County, West Virginia. He has worked in the field of education in rural Appalachia for 34

years. During this time, he has held positions throughout the education system, including teacher, basketball coach, elementary school principal, superintendent, and president of a local education association. He holds a master's degree in school administration from Marshall University. Under Prichard's leadership, Carter County School District has been one of the districts to participate in the Appalachian Math and Science Partnership program with the University of Kentucky, funded by the National Science Foundation to improve the math and science skills of students in Appalachia.

Tanya Pullin is an attorney who was elected to the Kentucky House of Representatives in 2001. She holds her bachelor's and juris doctorate degrees from the University of Kentucky and a master's degree from Duke University. She is a University of Kentucky Fellow and a Governor's Cup Quick Recall Moderator. She is a member of the Kentucky Bar Association, Kiwanis, Ashland Alliance, the University of Kentucky Law Alumni Board, Eastern Kentucky Women in Leadership, and Toll Fellowship.

Robert (Bob) Quick is the president and chief executive officer for Commerce Lexington Inc., a 2000+ member-driven chamber of commerce and economic development organization. During his 18 years in the chamber profession, he has also served as the president and CEO of the Metropolitan Evansville (Indiana) Chamber of Commerce and as the executive vice president of the Iowa City Area Chamber of Commerce. Quick has served as the assistant director of the World Agricultural Expo, administrative aide of the Public Liaison Office of the U.S. Secretary of Agriculture, and as the National FFA secretary. He serves on several boards of directors, including Commerce Lexington Inc., Fayette Education Foundation, Lexington Industrial Foundation, Kentucky World Trade Center, Sanders – Brown Center on Aging Foundation, Downtown Lexington Corporation, Character Counts, and Lafayette Board. Quick also serves on the prestigious "Committee of 100" for the U.S. Chamber of Commerce.

Joe Reagan is president and CEO of Greater Louisville Inc. the Metro Chamber of Commerce, the region's primary economic development, workforce development, and business leadership organization. Reagan came to Greater Louisville Inc. from the Rockford, Illinois, Chamber of Commerce, where he served as executive vice president and as executive director of the Council of 100 - an economic development leadership organization. Prior to entering the Chamber profession, he owned a marketing and publishing company and spent 12 years in radio broadcasting management, sales and programming. He is a graduate of the University of Iowa.

E.C. (Eddy) Roberts, Jr. is president of BellSouth Kentucky. He graduated from the University of Alabama-Tuscaloosa with a business marketing degree and continued his education receiving his M.B.A. in 1973. Roberts began working for BellSouth that same spring in Birmingham, working in various management positions including marketing, product management, revenue requirements, pricing, and public affairs. In June, 1991 he was promoted to regulatory vice president bringing him and his family to Louisville. He serves on the boards of Greater Louisville, Inc., Baptist Hospital East, University of Louisville Board of Overseers, Centre College, Fund for the Arts Executive Committee,

Advisory Committee of the Center for Information Technology Enterprise, Leadership Louisville, and the University of Louisville Foundation.

Julia Link Roberts is the Mahurin Professor in Gifted Studies and director of The Center for Gifted Studies at Western Kentucky University. She founded The Center, which has offered programs for children and young people, parents, and educators for 25 years. For the past nine years, she has advocated for the Academy of Mathematics and Science in Kentucky. This leadership has resulted in the Academy opening its doors in the fall of 2007. In addition, she has co-directed three Eisenhower grants. She has been named distinguished professor at Western Kentucky University. She was further honored as the first recipient of the National Association for Gifted Children David W. Belin Advocacy Award, and she was selected for inclusion in *Profiles of Influence in Gifted Education: Historical Perspectives and Future Directions* (2003). Roberts serves on the boards of the National Association for Gifted Children, the Kentucky Association for Gifted Education, and *Gifted Child Today*. She also is a member of the Governor's Advisory Council for the Gifted and Talented in Kentucky. In 2006, she co-authored the book *Strategies for Differentiating Instruction: Best Practices in the Classroom* published by Prufrock Press. In addition to publishing articles, chapters, and books, she has also presented at state, national, and international conferences.

Melanie Roberts has taught 19 years at Cedar Grove Elementary in Bullitt County. She received her bachelor's and master's degrees in elementary education from the University of Louisville. Roberts was elected in 2006 as the Bullitt County Judge Executive. She is involved in many civic and service organizations and activities. Roberts was named the Bullitt County Chamber of Commerce Citizen of the Month and was invited to The White House to meet with President and Mrs. Bush.

Phillip S. Rogers is the executive director of the Kentucky Education Professional Standards Board and served as division director of professional learning and assessment prior to becoming executive director. A native of Nashville, Tennessee, Rogers received a bachelor's degree in counseling from Liberty University in Virginia, a master's in child development from Western Kentucky University, and a doctorate in education evaluation from the University of Louisville. He served as the founding director of the Allen County Schools' Family Resource Center, recognized in 1995 as Kentucky's Outstanding Family Resource Center by the Kentucky Association of Guidance Counselors. Rogers most recently served as the principal investigator for an \$11 million federal teacher quality enhancement grant. In addition, he has performed research and evaluations for a variety of organizations and programs, including the Kentucky Institute for Educational Research, the National Center for Family Literacy, the Kentucky Safe Schools Project, and the Kentucky Department for Juvenile Justice. His current research interests include educational policy formation as it relates to educator preparation and professional development for experienced educators.

Wimberly C. Royster began his academic career as an assistant professor of mathematics at Auburn University in 1952. In 1956 he joined the University of Kentucky

mathematics faculty and has served in a professorial role in mathematics through 1992. After retiring as vice president, he joined the Kentucky Science and Technology Corporation, as become statewide director of the Kentucky Experimental Program to Stimulate Competitive Research (EPSCoR) program. In that capacity, he has coordinated among the state's universities the various federal agency's EPSCoR and EPSCoR-like programs for over nine years. He currently serves as its chairman. Royster became involved with the National Science Foundation's Rural Systemic Initiative program by conducting a conference that led to the first four NSF-funded Rural Systemic initiatives in the nation which included the Appalachian Rural Systemic Initiative (ARSI). Based on the success of the ARSI project, he and colleagues at the University of Kentucky developed a proposal to NSF's Mathematics and Science Partnership program. As a result, Kentucky received an award of \$22 million for the Appalachian Math and Science Partnership (AMSP), a program to eliminate the "achievement gap" in mathematics and science for pre K-12 students in the region and build a high-quality teacher workforce. He served as project director of AMSP for two years and currently serves as co-principal investigator.

Owens G. Saylor is in his 27th year as both educator and administrator. Although he is a native of Kentucky, he began his teaching career in Florida. He returned to Kentucky and began teaching in Jessamine County and found his professional home. He has served as middle/high school band director, high school assistant principal, high school principal, and now as the assistant superintendent for teaching and learning for the Jessamine County Schools. He earned a bachelor's degree in music education, a master's of music, a Rank 1 certificate in educational supervision, and an upper-level administrative certification, all from the University of Kentucky.

Phillip Schmidt has resumed his position as director of the center of Integrative Natural Science and Mathematics (CINSAM) at Northern Kentucky University after serving for more than two years as interim dean of the College of Arts and Sciences at NKU. He began his service at NKU as founding director of CINSAM. Prior to coming to Kentucky, he was chair of the department of mathematics and computer science at the University of Akron in Ohio. He served that department rising to the rank of professor of electrical engineering. He earned his bachelor's and master's degrees in mathematics and his doctorate in applied mathematics from Purdue University in West Lafayette, Indiana. In his position as director of CINSAM, Schmidt works extensively with the schools of northern Kentucky to improve the teaching of science and mathematics. His area of teaching has been in applied mathematics with a special emphasis on the mathematics used in engineering and the physical sciences.

Kathy Schroerlucke is the manager of educational development for the Kentucky Dataseam Initiative where she works collaboratively with Morehead State University and other institutions to transform K-12 districts into 21st century digital learning environments. Through professional development, the visiting professionals program, and creating studio-based learning environments, K-12 partners practice project-based learning strategies through which they will grow the next generation of scientists, engineers, mathematicians, technologists and teachers. A pioneer in the community technology

movement, Schroerlucke partnered with non-profit organizations in Connecticut, Massachusetts, and Pennsylvania to expand their capacity for digital learning. At Carnegie Mellon University she developed and taught an innovative computer science course that partnered undergraduates with executives of non-profit organizations, learning partnerships that served to transform the region's nonprofit landscape. Since returning to Kentucky in 2005, she developed, directed, and managed the educational outreach department for Northern Kentucky University and consulted on two projects involving Jefferson County Public Schools; the Every1 Reads initiative and the GE Math and Science program. She holds a master of adult education from Indiana University and a master of divinity from Harvard University.

Robert F. Sexton has been the executive director of the Prichard Committee for Academic Excellence since its creation in 1983. He has also been a deputy director of the Kentucky Council on Higher Education and administrator and professor of history at the University of Kentucky. Sexton is a graduate of Yale University and earned his doctoral degree in history from the University of Washington. He was a visiting scholar at Harvard University and at the Annenberg Institute for School Reform at Brown University. Sexton has been recognized widely for his efforts to improve public education, receiving the Charles A. Dana Award for Pioneering Achievement and several honorary degrees. He is a founder of the Kentucky's Governor's Scholars program and the Commonwealth Institute for Teachers. He chaired the board that created the Carnegie Center for Literacy and Learning in Lexington and currently serves on several boards, many education related.

Linda Sheffield is regents professor of mathematics education at Northern Kentucky University with a joint appointment in the Department of Mathematics and the Department of Teacher Education and School Leadership. She is executive director of the Kentucky Center for Mathematics and a member of the Kentucky Committee for Mathematics Achievement. She is chair of the Math/Science Task Force of the National Association for Gifted Children, working with the National Council of Teachers of Mathematics and the National Science Teachers' Association on a variety of initiatives in support of the identification and development of mathematical and scientific talent and promise in students of all ages. She is past president of the School Science and Mathematics Association (SSMA) and was chair of the Task Force on Promising Students for the National Council of Teachers of Mathematics (NCTM). She was editor of the NCTM book *Developing Mathematically Promising Students* and has authored several other publications. She has conducted seminars for teachers and students across the U.S. and internationally.

Stu Silberman is the superintendent of Fayette County Public Schools. Silberman is a veteran educator whose career started as a teacher. He has held administrative posts ranging from principal to superintendent over the course of his 32-year career, and was twice named Kentucky Superintendent of the Year – once by the Kentucky Association of School Administrators and once by the Kentucky School Boards Association. He has been the superintendent of the Fayette County Public Schools since 2004, bringing his mantra "It's About Kids" to the district. His tenure has been marked by a commitment to

transparency and openness with the public, fiscal responsibilities and a tremendous community effort to redesign education in Fayette County called 2020 Vision. Silberman holds a bachelors degree and a master's degree from the University of Tennessee, Chattanooga. He has an honorary doctorate degree from Kentucky Wesleyan College.

Charley Simpson is the vice president and chief information officer for The Center for Rural Development and is responsible for Public Safety, Homeland Security, and the technology efforts of the organization. The Public Safety Program serves 1,500 law enforcement officers and 110 agencies, and the Homeland Security Program is a national program administering the Certificate Program in Prevention Strategies for the Department of Homeland Security and serving as the prime partner in the rural Domestic Preparedness consortia. The Center oversees a statewide video conferencing network that received the 2006 NADO Innovation Award. In addition, The Center runs a Network Operations Center that hosts the Blackboard Course Management System, hosts over 150,000 e-mail accounts and, is home to its 42-county wireless Public Safety Network. Simpson is on several boards of organizations in eastern Kentucky. Prior to coming to The Center, he was the director of technology and telecommunications with the Southeast Community and Technical College. He holds a bachelor's degree in business administration from the University of Kentucky and a M.B.A. from Louisiana Tech. He is a former USAF officer and flight instructor.

Lydia Wells Sledge, after a long and distinguished career in teaching, serving as a mathematics consultant, and directing a branch for basic skills, mathematics, science, environmental education, and technology, became the director of instructional technology for the Kentucky Department of Education in 1991. She served in this position for 12 years. She led a division of both regional and Frankfort-based consultants who were responsible for the instructional components of the Kentucky Educational Technology System. She was a member of the five-member leadership team, which designed and implemented the system, helping Kentucky become a national leader in educational technology. One of her division's responsibilities was the Kentucky Education Technology Conference, which later became the Kentucky Teaching and Learning Conference. Begun in 1979, the conference evolved into one of the largest and most innovative education conferences in the Southeast. In 2002, she was awarded the Kentucky Association of Technology Coordinators' Outstanding Technology Leader Award and was presented with the Outstanding Leader in Education Technology Award by the International Society of Technology in Education. Since her retirement in 2003, she has contributed her time and energies to several humane, arts and educational organizations. Her current activities include serving as managing editor for an international group of online volunteers writing a book, traveling, and serving as president of the Capital City Macintosh Users Group.

M. Scott Smith is the dean of the College of Agriculture at the University of Kentucky and has served Kentucky agriculture, first as an agronomy professor, then as chairman of the agronomy department, and later as associate dean for research. He became dean of agriculture in January 2001. Smith conducted research and taught on soil science, publishing more than 50 research articles about the impact of agricultural practices on soil

productivity and environmental quality. He is a Fellow of the Soil Science Society of America and the American Society of Agronomy. A native of central New York, Smith holds bachelor's and master's degrees from Cornell University. He completed his doctorate from Michigan State University in 1978. As Dean, Smith also serves as director of the Kentucky Cooperative Extension Service.

Suzanne Soled is associate professor and chair of teacher education and school leadership at Northern Kentucky University. She is a cognitive psychologist with her bachelor's degree in psychology from UCLA and her doctorate in measurement, evaluation, and statistical analysis from the University of Chicago. Prior to joining NKU, she was a faculty member for more than 20 years at the University of Cincinnati. Soled has published several books and book chapters, articles in refereed journals, and other publications. She has made many presentations at professional conferences and has been awarded grants for funded research totaling more than \$4.3 million. Of special interest is her work in the STEM areas where she works with secondary science and mathematics teachers to increase their professional development through research experiences. Her efforts have been rewarded through two National Science Foundation grants to improve STEM interest and skills of high school students through the development of synergistic partnerships between higher education and K-12.

Ben M. Streepey is currently vice president and general manager of business supplies for Lexmark International, Inc., at the Lexington, Kentucky, headquarters. He is responsible for worldwide engineering, manufacturing, marketing, sales, and the financial results of the business. Streepey began his 27-year career as a development engineer; designing microprocessors control systems for IBM in Lexington's typewriter development division. He was part of the sale of the IBM printer business and transitioned to the newly formed company, Lexmark International, headquartered in Lexington. He received his bachelor's and master's degrees in electrical engineering from the Speed Engineering School, University of Louisville. He serves on the UofL Engineering School Dean's Industrial Board of Advisors, UK Engineering Dean's Advisory Council, and several other boards.

Lee T. Todd Jr. became the 11th president of the University of Kentucky July 1, 2001. He is a native of Earlington, Kentucky and a graduate of UK and the Massachusetts Institute of Technology. He is a former UK engineering professor, a successful businessman who launched two worldwide technology companies both based in Kentucky, and a public advocate for research, technology and an entrepreneurial economy in the Commonwealth. Todd is a member of the American Council on Education's board of directors, National Association of State Universities and Land-Grant Colleges board of directors, the Business Higher Education Forum, and the Council on Competitiveness. He is also a member of the National Science Foundation's Education and Human Resources Committee.

Billie Travis is the curriculum resource teacher at Royal Spring Middle School in the Scott County School System. This is her 27th year as a teacher and has taught seventh grade math and pre-Algebra for the past 21 years. Travis earned her bachelor's degree in elementary education from Morehead State University and her master's degree in

elementary education and her Rank 1 certification in educational studies both from Georgetown College. She has been very active in several committees at her school, district, and at the state level. She enjoys working as a resource teacher for new teachers and spends most of her summers working at the state level on various educational committees. She has received several awards including 2005 Kentucky Teacher of the Year and belongs to several professional organizations.

Darrell Treece is superintendent of the Adair County Schools. His background includes teaching chemistry, physics, and math. Treece has been an educator for 36 years and has spent 14 of those as a high school principal. He is in his sixth year as superintendent.

John S. Turner was elected Council chair in January 2007. He served as vice chair in 2005 and 2006. Turner is president and chief executive officer of Angell Demmel North America in Lebanon, Kentucky. Prior to that, he served as vice president of business development of Montebello Packaging in Lebanon and as general manager of Portland Forge in Lebanon and Teledyne Packaging in Carrollton. Turner currently serves on the board of Farmers National Bank in Lebanon and the Lebanon/Marion County Industrial Foundation. He has been a member of the Kentucky Chamber of Commerce, the Kentucky Advocates for Higher Education, and the board of trustees for St. Catharine College. Mr. Turner holds a bachelor's degree from Seton Hall University. Turner was appointed to the Council in 2004 and will continue to serve as until December 31, 2009.

Barbara M. Veazey has a bachelor's and master's degree from Murray State University, a master's degree in nursing from the University of Evansville, and a doctorate in educational administration from Southern Illinois University. She began her college career as a nursing instructor, became chair of the program, and later the dean of academic affairs. Veazey also served as interim president of Paducah Community College. She developed several new programs including the first technical studies program in the state, where technical courses of study could lead to an associate degree. She has chaired the technology and internet staffing team for KCTCS, resulting in KCTCS being the primary provider for the Kentucky Virtual University. A national consultant on educational issues, she recently spoke to the American Council on International Education. She was named the Chamber of Commerce Volunteer of the Year 2000, received the Outstanding Alumni Award in 2002, and served as chair of the Chamber in 2006.

Caryn Walker is a graduate of Centre College with her bachelor's degree in history. She completed a master's degree in teaching from the University of Louisville and has been teaching in Jefferson County Public Schools since 1992. As an elementary teacher specializing in science and environmental studies, Walker received the Jefferson County Environmental Teacher of the Year Award in 2005, the Kentucky Environmental Quality Commission Earth Day Award in 2006, and the Ashland Teacher Achievement Award in 2007. She has worked for six years on the content advisory committee for the Kentucky Department of Education giving teacher input on state assessment. She has worked in the Jefferson County School District as a science teacher leader as liaison and has been active with the Implementation of Science Modules. Walker has also served as a member of the

district teacher cadre to prepare and deliver teacher professional development on inquiry-based science module curriculum. Currently she teaches third and fourth grade at the J. Graham Brown School in downtown Louisville.

Neil V. Weber is professor and dean for the College of Science, Engineering and Technology at Murray State University where he has served since 1980. He received his doctoral degree in geomorphology from Indiana State University. He is a registered professional geologist, a member of the Kentucky Statewide Engineering Advisory Committee, and serves as an advisor for other educational institutions in the midwest. He is a member of the DOE – EPSCoR, Kentucky Executive Committee, a technical advisor to the U.S. Department of Energy, and is an earthquake management program project leader as well as a member of the Kentucky Governor’s Council on Earthquake Risk Reduction. Weber has been awarded numerous grants and contracts dealing with earth resources management and planning. He has obtained several grants and contracts as well as written many publications.

Susan Weiss is president of Net Tango, a Web-based software development company founded in 1996 in Louisville, Kentucky. Net Tango specializes in developing complex internet solutions, including Web software development, e-business applications, interactive Web sites and Intranets. Net Tango has been recognized for innovative technology solutions earning The Landmark of Excellence Award from the Public Relations Society of America and the Public Affairs Council Grassroots Innovation Award. Prior to founding Net Tango, Weiss spent 12 years in various management, system development and marketing positions in Washington, D.C., and Chicago. She earned a bachelor’s degree in business and economics from The American University and an MBA from the University of Louisville. She currently serves on The Kentucky Science and Technology Corporation board and executive committee, the University of Louisville's Entrepreneurship Council, and The Center for Information Technology Enterprises board. She has also served on a number of other boards and has received the Women Business Owner of the Year Award by the National Association of Women Business Owners and the Distinguished Alumni Service Award from the University of Louisville.

Tom Welch, a native of Nebraska, holds degrees from Asbury College and the University of Kentucky. He has served in a variety of education-related positions, first as a classroom teacher (Kentucky Teacher of the Year, 1992) and then curriculum consultant at the Kentucky Department of Education. More recently he was principal of East Jessamine High School in Nicholasville. Always an ardent revolutionary when it comes to school reform, Welch left East High to oversee the education initiatives of Kentucky’s Economic Development Cabinet’s Office for the New Economy. From there he transitioned to the Kentucky Department of Education where he was the “director of seeding innovation” in the Division of Virtual and Secondary Schools. A couple of the last projects Tom was involved in there included helping oversee the development of an online course in Mandarin Chinese and the establishment of the nation’s first virtual magnet school. In the past few months Welch visited schools and universities in France and China. Since leaving the Kentucky Department of Education he has been working extensively as an independent

consultant with the International Center for Leadership in Education and CCSSO, the Council of Chief State School Officers, and other state and national agencies.

Connie G. White is a native of Campbellsville, Kentucky. She is a practicing gynecologist with White, Scott, Jonah, and Associates, PSC, in Frankfort, an all-woman gynecology practice. White emphasizes education and preventive medical care with her patients. She is a graduate of Kentucky Wesleyan College with a bachelor's degree in chemistry. White received her master's degree in toxicology from the University of Kentucky and worked at the National Center for Toxicological Research in Little Rock, Arkansas. She then attended medical school at the University of Kentucky and completed her OB-GYN residency program at the University of Louisville.

LaJuana S. Wilcher is a partner with English, Lucas, Priest & Owsley, LLP in Bowling Green. She served as secretary of Kentucky's Environmental and Public Protection Cabinet from 2003-2006. Wilcher is a scientist and lawyer and a product of the Kentucky public school system. She received her bachelor's degree in biology from Western Kentucky University, and her juris doctorate from Northern Kentucky University's Salmon P. Chase College of Law. In private practice, Wilcher works to develop and implement solutions to complex public policy, regulatory, and legal issues. She has represented Fortune 100 companies, municipalities, start-up firms, and non-governmental organizations while a partner at ELPO or in the Washington, D.C., offices of two international law firms. From 1989-1993, following Presidential nomination and Senate confirmation, Wilcher was assistant administrator for water at EPA in Washington. Wilcher also has served as a member of the U.S. National Park System advisory board and on the U.S. Commission on UNESCO. She was awarded the National Association of Clean Water Agencies' state public service award, the Chase Alumni Association gold medal, and honorary membership in the American Water Works Association. She teaches environmental law and policy at Vermont Law School during the summers and owns and operates Scuffle Hill Farm in Alvaton, Kentucky.

Mickey R. Wilhelm is the dean of the J. B. Speed School of Engineering at the University of Louisville and has been a faculty member at UofL for 31 years. He received the BSE in Electrical Engineering and the MSE and Ph.D. degrees in Industrial and Systems Engineering from the University of Alabama in Huntsville. His principal teaching and research interests are facility location, layout, and material handling system design; applied operations research; and applications of fuzzy sets and systems. He is a fellow of both the Institute of Industrial Engineers and the World Academy of Productivity Sciences. He was elected to the Distinguished Engineering Alumni Academy of the University of Alabama in Huntsville in 2003 and received the UAH Alumni of Achievement award in 2004. He is a licensed professional engineer and serves on the Kentucky Board of Licensure for Engineers and Land Surveyors. Wilhelm has been very active with Greater Louisville, Inc. for many years. He has served on the board of directors of the Advanced Technology Council and is currently serving on the board of the GLI Logistics Network. He is also a member of the Engineering Accreditation Commission of ABET, Inc., the

organization responsible for accrediting engineering educational programs throughout the U. S. and several foreign countries.

William H. Wilson is the executive director for education and outreach for Kentucky Educational Television. He has an extensive background in education and marketing. Wilson began his work at KET in 1971 as assistant project director for content research/design on the General Educational Development (GED) project. He received his bachelor's degree in history and political science from Kentucky State University and his master's in educational counseling and counseling from the University of Kentucky. He has served as a consultant to a variety of corporations, organizations, and conferences. Wilson is a member of a number of local, state, and national community service organizations and presently serves on the board of directors for the Carnegie Literacy Center, Saint Joseph Hospital, and Hospice of the Bluegrass. Additional advisory board activities include the State Advisory Council for Libraries and Archives, the Lexington Public Library, and the John and James L. Knight Community Foundation.

Frank Wiseman has been a professor of chemistry since 1970 and has worked at two state universities and four private liberal arts colleges over the past 36 years. He is a native of the Commonwealth of Virginia with a heritage that dates back to 1732 in that state and has lived in Maryland, New York, and Illinois before moving to Kentucky in 1979. After teaching for several years at the University of Kentucky, he has been at Georgetown College for 26 years and is currently professor and chair of the chemistry department. His research specialties include education research (methods of overcoming barriers to learning chemistry) and synthetic organic chemistry of new compounds with the potential for treating seizure conditions (in cooperation with the National Institutes of Health). He has won the Cawthorn and Manning awards for teaching and mentoring, respectively, and most recently has been named the Carnegie/CASE Kentucky professor of the year for 2006.

John H. Yopp is the associate provost for educational partnerships and director of the Appalachian Mathematics and Science Partnership and the Partnership Institute for Mathematics and Science Education Reform at the University of Kentucky. Before coming to the University of Kentucky, he was vice president for graduate and professional education at the Educational Testing Service. He was a senior visiting scholar at the Paul Simon Public Policy Institute and a senior scholar in residence at the Council of Graduate Schools in Washington D.C. Yopp served as associate vice chancellor for academic affairs and research and dean of the graduate school at Southern Illinois University at Carbondale and was also a professor of plant physiology at Illinois University for 27 years. He has served as a member of numerous state and national boards and committees concerned with international educational issues over the past 25 years. He received his bachelor's degree in biology from Georgetown University and his doctorate in biology from the University of Louisville. He was a National Research Council postdoctoral fellow in biochemical adaptation to extreme environments at NASA's Ames Research Center.

James R. Zanewicz started the Office of Technology Development at the University of Louisville and guided the office's development and growth into the Office of Technology Transfer. He earned his bachelor's degree in chemistry from Centre College and his juris doctorate from Tulane Law School. Zanewicz is admitted to practice before both the Kentucky Bar and the U.S. Patent and Trademark Office and authored a thesis on "Online Data Privacy in the United States: Analysis and Proposed Regulatory Scheme" as part of earning his LL.M. in Intellectual Property and Media Issues from the University of Illinois at Urbana-Champaign. He co-chairs the Technology Transfer Committee for BIO, is a steering committee member of the Ohio Valley Affiliates for Life Sciences, has served on several AUTM committees, and is an active member of COGR. His proudest achievement is his involvement as a disaster services volunteer for the American Red Cross.