

The National Academies of
SCIENCES • ENGINEERING • MEDICINE

STRENGTHENING THE CONNECTION BETWEEN HEALTH PROFESSIONS EDUCATION AND PRACTICE:
A JOINT WORKSHOP WITH THE NATIONAL CENTER FOR INTERPROFESSIONAL PRACTICE AND EDUCATION

PLANNING COMMITTEE, CONSULTANT, AND SPEAKER BIOGRAPHIES

Barbara Brandt (*Workshop Chair*), Renowned for her work in health professional education, and specifically, interprofessional practice and education and continuing health professions education, Dr. Barbara Brandt serves as the director of the National Center for Interprofessional Practice and Education (National Center), a public-private partnership charged by its founders to provide the leadership, evidence, and resources needed to guide the nation on the use of interprofessional education and collaborative practice as a way to enhance the experience of health care, improve population health and reduce the overall cost of care. The founders and funders of the National Center are the United States Department of Health and Human Services, Health Resources and Services Administration; the Josiah Macy Jr. Foundation, the Gordon and Betty Moore Foundation, the Robert Wood Johnson Foundation and the University of Minnesota.

Dr. Brandt has served as a tenured professor of pharmacy and an associate vice president at the University of Minnesota for over 15 years. She has also served as a principal investigator of over \$25M in grants and contracts while at Minnesota. Under her leadership, several interprofessional programs were initiated, including the Academic Health Center Office of Education, the Health Careers Center, the Interprofessional Education and Resource Center and the 1Health Interprofessional Education curriculum. In her leadership roles, Dr. Brandt has served as a consultant, advisor and speaker for a wide variety of organizations such as the Institute of Medicine – now the National Academy of Medicine, the National Quality Forum, the Academy of Healthcare Improvement, the Josiah Macy Jr. Foundation, the Association of Schools of Allied Health Professions, the American Nurses Association, the American Speech-Language-Hearing Association and the American Medical Association, among many higher education institutions, other professional and academic associations and groups. She was a founding member of the Association of Clinicians for the Underserved, growing out of studying National Health Service Corps Scholars after placement in their first practice assignment.

Dr. Brandt holds a bachelor of arts in the teaching of history from the University of Illinois at Chicago and a master of education and doctor of philosophy degrees in continuing education, specializing in the health professions from the University of Illinois at Urbana-Champaign. She completed a W.K. Kellogg Foundation-sponsored post-doctoral fellowship for faculty in adult and continuing education at the University of Wisconsin-Madison. Dr. Brandt is a fellow of the National Academy of Practice. Her honors include: University of Illinois Distinguished Alumna; Honorary Alumna of the National Health Service Corps; Fellow, National Academy of Practice, and 2018 University of South Carolina-Greenville Luminary in Medicine.

Christine A. Arenson, M.D. is Alumni Professor and Chair of the Department of Family and Community Medicine, Sidney Kimmel Medical College at Thomas Jefferson University in Philadelphia, Pennsylvania. Dr. Arenson graduated from the University of Delaware in 1986 and Jefferson Medical College in 1990. She completed family medicine residency training at Thomas Jefferson University Hospital, followed by a fellowship in geriatric medicine. She was the founding Director of the Jefferson Division of Geriatric Medicine and Palliative Care and has focused on patient-centered care and team education for health professionals as strategies to improve the health of older adults. She was the founding Co-Director of the Jefferson Center for Interprofessional Practice and Education, serving in that role from 2007-2016. Most recently, she has been actively engaged in primary care transformation to meet the Quadruple Aim: Improve the Experience of Care, Improve Health Outcomes, Reduce Costs and Restore Joy in Practice. She serves on the board of the Delaware Valley ACO and the Executive Steering Committee for Jefferson Health population health and primary care initiatives, implementing a new Advanced Primary Care Model across a growing Jefferson primary care network and designing education to improve interprofessional team performance in healthcare. She remains actively engaged in interprofessional education nationally, currently serving as Chair of the American Interprofessional Health Collaborative.

Gaurdia Banister, Ph.D., R.N., NEA-BC, FAAN, is the Executive Director of the Institute for Patient Care at Massachusetts General Hospital. The Institute serves as a catalyst for promoting interdisciplinary research, education and clinical practice development. Dr. Banister has academic appointments at the MGH Institute for Health Professions and the University of Massachusetts of Boston, College of Nursing and Health Sciences. She is a former Johnson and Johnson Wharton Nurse Fellow and an alumna of the Robert Wood Johnson Executive Nurse Fellows Program. Her research interests include innovative models of interprofessional education, transition to practice considerations for culturally-diverse nursing students and the impact of mentoring on career success and progression.

Barbara Barney-Knox, M.B.A., M.A., B.S.N., R.N., is a Chief Nurse Executive for California Correctional Health Care Services (CCHCS). She is responsible for Professional Practice and Compliance throughout the state for the 35 prisons in California. Barbara has been with CCHCS for 4 years and has been instrumental in developing and implementing Shared Governance, a nursing professional practice model that empowers nurses to have a voice in decisions that impact nursing. Prior to working for CCHCS Barbara spent 8 years as a leader at Kaiser Permanente and 17 years at University of California Davis Health System. Barbara received her BSN from San Jose State University almost 30 years ago. She has a Masters in Psychology and graduated Summa Cum Laude with her MBA. As a leader Barbara has accumulated awards and accolades throughout her career. She is the 2010 recipient of the Nurse of Distinction Award from Chi Eta Tau Nursing Sorority and has also received several awards from University of California Davis including the Nurse Excellence Award, the Ambassador of Diversity Award and Manager of the Year Award for receiving Patient Satisfaction Scores in the 95th percentile for 4 consecutive quarters. Other recognitions include Kaiser Permanente Work Place Safety Award for Injury and Illness Prevention and a nomination for the American Nurses Association National Nurse of Excellence Award. She is currently a candidate for the Inter-Agency Advisory Committee on Apprenticeship. In her career Barbara has been selected to present at several professional conferences including the American Nurses Credentialing Center (ANCC) National Magnet Conference, ANCC Med/Surg Conference and the Western American Correctional Health Services Association (WACHSA) Annual Conference. Barbara currently serves as the President-Elect for WACHSA. In her spare time Barbara is a motorcycle enthusiast and has rode across country on her Harley Davidson on four occasions.

Julia Blitz, Centre for Health Professions Education, Stellenbosch University, South Africa

Reamer L. Bushardt, Pharm.D., PA-C, DFAAPA, tenured professor and chair of the Department of Physician Assistant (PA) Studies at Wake Forest Baptist Medical Center's School of Medicine, was named senior associate dean for health sciences at the George Washington University (GW) School of Medicine and Health Sciences (SMHS). He has published extensively on the education and training of health care professional students and leaders, interprofessional education and collaborative practice models. Bushardt serves as editor-in-chief for the Journal of the American Academy of Physician Assistants. He serves as a member of the North Carolina Medical Board and is a fellow in the Federation of State Medical Boards. He received the North Carolina Triad Forty Leaders Under Forty Award, Teacher of the Year Award from the Medical University of South Carolina's College of Health Professions, the Innovative Pharmacist of the Year from the South Carolina Pharmacy Association, and the Nancy Moore Thurmond Community Service Award, among many others. Bushardt received his doctor of pharmacy and bachelor of science in pharmaceutical sciences from the University of South Carolina. He received his bachelor of science in physician assistant studies from the Medical University of South Carolina. He completed an administrative fellowship in health system leadership and workforce innovation at Wake Forest Baptist Medical Center.

Kennita Carter, M.D. (Planning Committee Member), is a Senior Advisor in the Division of Medicine and Dentistry, Bureau of Health Workforce at the Health Resources and Services Administration (HRSA), U.S. Department of Health and Human Services. She received a B.S. degree in Psychobiology from the University of California, Los Angeles, and completed both medical school and a residency in Internal Medicine at the University of Maryland, School of Medicine. She is a board-certified internist and

fellowship-trained geriatrician. She completed her fellowship at Union Memorial Hospital in Baltimore. She completed the Duke Integrative Leadership fellowship in Durham, North Carolina, and was a recipient of the Bravewell Leadership Fellowship in Integrative Medicine at the University of Arizona. She continues to serve as volunteer faculty training geriatric medicine fellows, internal medicine residents, and medical students in an interprofessional setting at the U.S. Department of Veterans Affairs. Other areas of interest include health equity, spirituality in medicine, and physician well-being.

Ronald Cervero, Ph.D., M.A. (Planning Committee Member), is a professor in the Graduate Program of Health Professions Education at the Uniformed Services University of the Health Sciences' School of Medicine. Dr. Cervero has provided intellectual and organizational leadership for the field of health professions education over the span of his career. He has published extensively in health professions education, with special emphasis on continuing professional development and the politics of educational planning. He received the Society for Academic Medicine's 2018 Dave Davis Research Award for his career-long scholarship in CPD.

He had held a variety of leadership roles at the University of Georgia (UGA) prior to moving to USUHS. He served as the Head of the Department of Lifelong Education, Administration, and Policy, Associate Dean for Outreach and Engagement in the College of Education, and the university's Associate Vice President for Instruction. He was extensively involved in health professions education at the University of Georgia where he founded and served as co-director of the Institute for Evidence-Based Health Professions Education, was the co-PI for Georgia's Public Health Training Center, and served for seven years as the educational consultant for the Augusta University-UGA Medical Partnership to strengthen the medical school's teaching, curriculum development, and educational research projects. He led the Provost's initiative on interprofessional education that created a campus-wide effort to build and sustain an IPE program linking all health professions units. Dr. Cervero received the Aderhold Distinguished Professor Award in 2008 for excellence in research, teaching, and outreach from the University of Georgia's College of Education. He earned his M.A. in the social sciences and his Ph.D. in education at The University of Chicago.

Steven Chesbro, P.T., D.P.T., Ed.D. (Planning Committee Member), is the Vice President for Education at the American Physical Therapy Association (APTA). In this role he provides leadership for the Department of Education that includes the divisions of academic services, accreditation, postprofessional credentialing, and residency and fellowship education. Prior to joining APTA in this role, Dr. Chesbro served as dean of the College of Health Sciences, and founder and director of the Center to Advance Rehabilitative Health and Education at Alabama State University. He has also had faculty positions at Howard University and the University of Oklahoma Health Sciences Center.

The majority of Dr. Chesbro's career has focused on health professions education, including initiatives to improve diversity in education and workforce environments. He was appointed to a 4-year term to serve on the Diversity Task Force of the NICHD/NIH, served as a board member of the Tuskegee Area Health Education Center, has been a recipient of the APTA's Diversity Award, received the Academy of Geriatric Physical Therapy's Distinguished Educator Award, and has served as the principal investigator/project director/site director of grants specific to health professions diversity from AHRQ, HRSA, and NIDRR. Dr. Chesbro completed a BA and MS (psychology and college teaching) at Northeastern State University, a BS (physical therapy) at Langston University, an MHS (neurologic physical therapy) at the University of Indianapolis, an EdD (occupational and adult education) from Oklahoma State University, and a DPT from MGH Institute of Health Professions. He is a board-certified geriatric clinical specialist.

Malcolm Cox, M.D. (Forum Co-Chair Emeritus), is an Adjunct Professor of Medicine at the University of Pennsylvania. He most recently served for 8 years as the Chief Academic Affiliations Officer for the U.S. Department of Veterans Affairs, in Washington, D.C., where he oversaw the largest health professions training program in the country and repositioned the VA as a major voice in clinical workforce reform, educational innovation, and organizational transformation. Dr. Cox received his undergraduate education at the University of the Witwatersrand and his M.D. from Harvard Medical School. After completing postgraduate training in internal medicine and nephrology at the Hospital of the University of Pennsylvania, he rose through the ranks to become Professor of Medicine and Associate Dean for Clinical Education. He has also served as Dean for Medical Education at Harvard Medical School; upon leaving the Dean's Office, he was appointed the Carl W. Walter Distinguished Professor of Medicine at

Harvard Medical School. Dr. Cox has served on the National Leadership Board of the Veterans Health Administration, the VA National Academic Affiliations Advisory Council (which he currently chairs), the National Board of Medical Examiners, the National Advisory Committee of the Robert Wood Johnson Foundation Clinical Scholars Program, the Board of Directors of the Accreditation Council for Graduate Medical Education, and the Global Forum on Innovation in Health Professions Education of the Institute of Medicine (which he currently co-chairs). Dr. Cox is the recipient of the University of Pennsylvania's Christian R. and Mary F. Lindback Award for Distinguished Teaching and in 2014 was recognized by the Association of American Medical Colleges as a nationally and internationally renowned expert in health professions education.

Shirley Dinkel, Ph.D., APRN-BE, FAANP, is nationally certified as both a family and adult nurse practitioner. For over 20 years, her professional practice has been in the care of the medically indigent and other vulnerable populations. She has been a nurse educator since 1991 and is Associate Dean of Graduate Programs at Washburn University. As a fellow in the American Association of Nurse Practitioners, she is nationally recognized for her leadership in NP education and practice. While at Washburn University, she has served in multiple interdisciplinary roles including Principle Investigator for the Classroom to Community: Implementing Patient-Centered Care in Public Housing program, Director of Student Health Services, member of the University Behavioral Assessment Team, and faculty sponsor for Washburn Transformational Experience. She is an active board member for several community organizations, including Pine Ridge Family Health Center Advisory Council and Kansas Patients & Providers Engaged in Prevention Research.

Jill Duncan, R.N., M.S., M.P.H. (Consultant), Executive Director, IHI, provides strategic development and programming leadership for IHI's Quality, Cost, and Value Focus Area; leadership of IHI's Joint Replacement Learning Community; program coordination and faculty leadership for IHI's Leading Quality Improvement: Essentials for Managers program; and program development and facilitation for many of IHI's workforce development initiatives. Her previous IHI responsibilities include daily operations and strategic planning for the IHI Open School, and development and leadership of Impacting Cost + Quality. Ms. Duncan draws from her learning as a Clinical Nurse Specialist, quality leader, pediatric nurse educator, and front-line nurse.

June Eilers Ph.D., APRN-CNS, BC, FAAN, received each of her nursing educational degrees from the University of Nebraska Medical Center where she currently holds two part-time positions – one as Volunteer Associate Faculty with the College of Nursing and one with the College of Public Health as a Co-Pi on a Eugene Washington Award with PCORI. She is the “patient representative” on the steering committee of that award. June spent over 35 years in the clinical setting working as an advanced practice nurse and nurse researcher with the Office of Nursing Research and Evidence Based Practice at the Medical Center. Her clinical expertise and research has been focused primarily in cancer care.

Caswell Evans, D.D.S., M.P.H. (*Forum Co-Chair*), at the University of Illinois, Chicago College of Dentistry; he is also a faculty member in the UIC School of Public Health. Previously he served as the Executive Editor and Project Director for Oral Health in America: A Report of the U.S. Surgeon General. For 12 years, Dr. Evans was Director of Public Health Programs and Services for the Los Angeles County Department of Health Services. He is a member of the National Academy of Medicine. He is a past president of the American Public Health Association, the American Association of Public Health Dentistry, and the American Board of Dental Public Health. Dr. Evans is Chairman of DentaQuest Foundation Board. He also serves on the Chicago Board of Health and the boards of the Institute of Medicine of Chicago, Oral Health America, and the Children's Dental Health Project.

Sara E. Fletcher, Ph.D. (*Planning Committee Member*), Vice President & Chief Learning Officer for PAEA, has been an educator for 16 years, having taught at both the primary and university level and served as a public school administrator. She has also designed curricula for local and national audiences. Fletcher holds a master's degree in school administration and a PhD in educational leadership. Previously, she served as director for medical education at Wake Forest University, where she worked with the PA program conducting student admissions interviews, serving as an external reviewer for an accreditation site visit, and facilitating problem-based learning for small groups. In her current role, she

partners with several of PAEA's volunteers on initiatives in curriculum, assessment, and faculty development.

Erin Fraher, Ph.D., M.P.P. (*Planning Committee Member*), holds a joint appointment as an Assistant Professor in the Department of Family Medicine and Research Assistant Professor in the Department of Surgery. She is the Director of the Carolina Health Workforce Research Center, one of five national health workforce research centers funded by the Health Resources and Services Administration to provide impartial, policy-relevant research that answers the question: what health care workforce is needed to ensure access to high quality, efficient health care for the U.S. population.

Dr. Fraher is well known for her ability to communicate complex research findings in ways that are easily understood and policy-relevant. She has published extensively in peer reviewed journals, but her ability to publish policy briefs, fact sheets, data summaries, maps, and other documents that convey information in ways that reach diverse audiences has allowed her work to have broad impact. She is often called upon by state and national legislators, policy makers, government officials, health professional organizations and other workforce stakeholders to provide expertise on a variety of issues related to the education, regulation and payment of health professionals. Dr. Fraher is an expert on comparative health workforce systems, having worked for the National Health Service in England, the College of Nurses of Ontario and served for many years as a member of the International Health Workforce Collaborative, a consortium of health workforce researchers/policy analysts in the United States, Canada, United Kingdom and Australia.

Alex F. Johnson, Ph.D., CCC-SLP (*Planning Committee Member*), is Provost and Vice President at the MGH Institute of Health Professions in Boston, MA. As the provost he serves as the chief academic officer, having responsibility for all of the academic programs, the faculty, and the students at the Institute. Read the Provost Blog.

He is also Professor in the MGH Institute Department of Communication Sciences and Disorders; teaches in the Master of Science in Health Professions Education (MS-HPEd); and on the faculty of the Harvard-MIT Program in Speech and Hearing Bioscience and Technology.

Dr. Johnson, originally from Ohio, completed his BS and Master's degrees at Kent State University; and his PhD in Speech-Language Pathology at Case Western Reserve University.

After working clinically for several years, Johnson served as Executive Director of the Cleveland Hearing and Speech Center, a university-affiliated comprehensive center at Case Western Reserve.

In 1988, he was appointed to launch a new division of speech-language pathology in the Department of Neurology at Henry Ford Hospital in Detroit Michigan. There Johnson started the clinical program that grew to a staff of 14 speech-language pathologists, developed a post-graduate specialty fellowship, and established a collaborative research program that continues today. He established several subspecialty clinics in Voice Disorders, Stuttering, Pediatric Communication Disorders, Swallowing Disorders, and Stroke rehabilitation.

His funded research, while at Henry Ford, included studies of communication changes that occurred in the earliest moments after a stroke as predictors of both language and brain recovery. He also participated in the validation of a number of outcomes measures that are now used as qualifiers for payment for speech and language rehabilitation, and was a co-investigator on the development of the Voice Handicap Index, a widely used tool in measuring recovery in persons with voice disorders, the Dysphagia Handicap Index, and the Communication Quality Scale.

In 1999, Johnson re-entered academia when he was appointed of Chair of the Department of Communication Sciences and Disorders at Wayne State University in Detroit. During his tenure at Wayne State the PhD program was expanded, a new Doctor of Audiology program was established, the speech-language pathology enrollment increased, the program was relocated to new facilities.

In 2008, Johnson was appointed by President Janis Bellack to join her as first academic provost at the Institute of Health Professions.

In 2006, Johnson served as President of the American Speech-Language-Hearing Association with a membership of over 130,000 speech-language pathologists and audiologists. He is a Fellow of ASHA and has received the Honors of the American Speech-Language-Hearing Association (2013) which is the highest honors that the Association can bestow to "recognize individuals whose contributions have been of such excellence that they have enhanced or altered the course of the Professions."

Johnson is the co-editor of two textbooks and numerous peer reviewed articles and chapters. Johnson has continuing clinical and scholarly interests in medical speech-language pathology and the effects of communication and swallowing impairment of quality of health and life. His interests also include a newer focus on the teaching and scholarly enterprise in higher education, as well as interprofessional education in the health science.

Mary Knab, P.T., Ph.D., DPT, joined the Institute faculty in 1995 as Director of Clinical Education for the Institute's developing entry-level physical therapy program where she was responsible for developing the successful and innovative clinical education component of the program's curriculum. Dr. Knab collaborated successfully with the healthcare delivery community in implementing a year-long paid internship as the culminating clinical education experience and played a critical role in curriculum development for the Institute's DPT program over many years.

Recognized nationally as a leader in developing innovative and effective clinical education models in the midst of a changing health care delivery system, Dr. Knab has been a frequent invited presenter on the topic.

Dr. Knab moved to the Center for Interprofessional Studies and Innovation in 2012 where she is a key leader in the Institute's interprofessional initiative – IMPACT Practice. Under the IMPACT Practice umbrella, Dr. Knab: leads the three-part series of required courses that provide Institute students with team-based interprofessional education experiences focused on the development of core competencies for collaborative practice; contributes curriculum and assessment expertise to the development of required institutional core competencies; and provides continuing professional development offerings related to interprofessional education, practice, and leadership. Dr. Knab has also served as Associate Professor for the Masters in Health Professions Education Program since its launch in 2012. Completing a PhD in Educational Studies at Lesley University in 2012, Dr. Knab's primary research interests are in the role of reflection in the development of health professionals along a novice-to-expert continuum, narrative as a vehicle for reflection, and models for interprofessional learning and development across academic, simulation, and clinical learning environments.

Gerri Lamb, Ph.D., R.N., FAAN, is Professor and Director of the Center for Advancing Interprofessional Practice, Education and Research at Arizona State University, Phoenix Arizona. Dr. Lamb is past-chair of the American Interprofessional Health Collaborative and convener of the Arizona Interprofessional Research and Learning Collaborative, a collaboration among 7 universities and 8 clinical organizations in Arizona working together to advance interprofessional practice and healthcare for vulnerable populations. Dr. Lamb has served as principal investigator on several grants funded by the Josiah Macy Jr. Foundation to design and implement new interprofessional learning programs. Her current Macy funded grant focuses on academic-practice co-created educational tools to improve team-based care in primary care and community-based clinical settings. Dr. Lamb also is well known for her research, publications, books and presentations on community-based care coordination, a practice she views as high performance teamwork.

Christine M. MacDonell, FACRM (*Planning Committee Member*), managing director of the Medical Rehabilitation and International Aging Services/Medical Rehabilitation accreditation areas, has more than 35 years of experience as a provider, administrator, and trainer in the human services field. Since 1991, Chris has represented CARF at international and national meetings, introducing and promoting the concepts of quality oversight and enhancement of human services through the CARF accreditation process in both medical rehabilitation and aging services. In 2003, Chris became responsible for the transition of the Continuing Care Accreditation Commission (CCAC), which CARF acquired in February 2003.

Warren P. Newton, M.D. M.P.H., serves as the President and CEO-Elect of the American Board of Family Medicine. A member of the Global Forum since its founding, Dr. Newton has served successively as Chair of Family Medicine, Chief Academic Officer, and Director of North Carolina AHEC at the University of North Carolina. A personal physician and health services researcher for 34 years, he has been heavily involved in practice transformation at the local, regional and statewide levels. He founded and led large scale care transformation collaboratives in primary care residencies across 3 states, and in

over 1400 primary care practices. He has worked closely with the UNC Sheps Center, ABFM and the North Carolina Department of Health and Human Services on workforce issues across many professions. Dr Newton has served on the Liaison Committee on Medical Education and was the founding chair of the American Board of Medical Specialties Committee on Continuing Certification.

Miguel A. Paniagua, M.D., FACP, FAAHPM, received his undergraduate degree from Saint Louis University before earning his MD at the University of Illinois College of Medicine, Chicago, where he also is completing his Masters of Health Professions Education (MHPE). Dr. Paniagua completed his internal medicine residency and gerontology & geriatric medicine fellowship at the University of Washington, Seattle. After four years on the faculty at the Miller School of Medicine at the University of Miami, he then served as the internal medicine residency program director at Saint Louis University School of Medicine for five years prior to joining the staff of the National Board of Medical Examiners. In addition to multiple teaching awards while a faculty member, Miguel is a forum member representative to the Institute of Medicine (IOM) Global Forum on Innovations in Health Professions Education, The ACGME's National Collaborative to Improve the Clinical Learning Environment (NCICLE) and a member of the Alpha Omega Alpha medical honor society. He is a fellow of the American College of Physicians, The American Academy of Hospice and Palliative Medicine, and the College of Physicians of Philadelphia. Miguel currently serves as Medical Advisor for Test Development Services at the National Board of Medical Examiners (NBME). His work at NBME includes research on wellness and burnout, how race, ethnicity and patient characteristics impact exams. Dr. Paniagua is working towards development of assessments of competencies such as communication skills and interprofessional team work, as well as other innovations across various NBME examinations. Dr. Paniagua has served on multiple item writing and reviewing committees at the NBME over the last decade, and has served as a representative member of the National Board of Medical Examiners governance from 2011 to 2014 and on the Executive Board of the NBME from 2013 to 2014.

One day per week, Dr. Paniagua practices consultative Hospice and Palliative Medicine at the Hospital of the University of Pennsylvania and holds an adjunct appointment to the faculty of the Perelman School of Medicine at the University of Pennsylvania. He is the co-editor of the fifth edition of the "*Essential Practices of Palliative Medicine (UNIPAC)*" book series and the fourth edition of the NBME publication, "*Constructing Written Test Questions for the Basic and Clinical Sciences.*"

Deborah Powell, M.D. (Forum Co-Chair), is dean emerita of the University of Minnesota Medical School and professor in the Department of Laboratory Medicine and Pathology at the University of Minnesota Medical School, where she coordinates the medical school pathology curriculum. At the University of Minnesota, Dr. Powell instituted the medical school's Flexible M.D. program, an individualized model of medical education designed to be more adaptable to students' career and learning goals. Dr. Powell served as chair of the Association of American Medical Colleges (AAMC) Board of Directors from 2009 to 2010 and was the first female chair of the AAMC Council of Deans in 2004. She was awarded the AAMC 2013 Abraham Flexner Distinguished Service to Medical Education Award. She is currently working on a pilot study of a new model for training medical students who want to go into pediatrics in a competency-based model that combines Undergraduate Medical Education and Graduate Medical Education. It is being tested in four U.S. medical schools including the University of Minnesota currently. Dr. Powell was elected to the Institute of Medicine in 2000.

Jane Robinson, currently serves as Deputy Director, Statewide Chief Nurse Executive for correctional health care in California. She joined California Correctional Health Care Services in 2006 and has more than 30 years of experience in nursing at various levels of health care systems in both community hospitals and state prison settings. She provides nursing leadership and oversight to state prisons located in California. Prior to coming to California, Ms. Robinson worked in correctional health care for the Washington Department of Corrections where she was a Continuous Quality Improvement Nurse and a Health Care Manager. Ms. Robinson has also served as a patient advocate for detainees in jail settings in the capacity of a court expert. Prior to her work in correctional health care systems, Ms. Robinson was a patient care coordinator in an acute care hospital in the Midwest, where her responsibilities included quality management, staff development, and policy and program development. Ms. Robinson is a member of the Advisory Board at Clover Park Technical College, AETC University of Washington, NCCHC Academy, and the American Correctional Health Services Association.

Susan C. Scrimshaw, Ph.D (*Forum Co-Chair Emeritus*), is President of The Sage Colleges, Troy, New York. Previous positions include President of Simmons College, Boston, Massachusetts; dean of the School of Public Health at the University of Illinois at Chicago; and associate dean of public health and professor of public health and anthropology at the University of California at Los Angeles. She is a graduate of Barnard College, with a Ph.D. in anthropology from Columbia University. Her research includes community participatory research methods, health disparities, pregnancy outcomes, violence prevention, and culturally appropriate delivery of health care. She is a member of the National Academies of Science and a fellow of the American Association for the Advancement of Science and the American Anthropological Association. She served on the Chicago and Illinois State Boards of Health. She is past president of the board of the U.S.-Mexico Foundation for Science and of the Society for Medical Anthropology, and former chair of the Association of Schools of Public Health. Her honors include the prestigious Yarmolinsky Medal, given by the National Academy of Medicine for distinguished service; the Margaret Mead Award, and a Hero of Public Health gold medal awarded by President Vicente Fox of Mexico. Dr. Scrimshaw lived in Guatemala until age 16. She speaks Spanish, French, and Portuguese.

Javaid I. Sheikh, M.D., M.B.A. (*Planning Committee Member*), is an internationally renowned medical executive, distinguished clinician-scientist, and widely sought after thought leader and innovator in global academic medicine. As the Dean of the groundbreaking Weill Cornell Medicine - Qatar (WCM-Q), he is the Chief Academic Officer of the first successful international location of a US, research-intensive graduate medical school to grant a medical degree from a US-based university. WCM-Q graduates have distinguished themselves as peers of the best and the brightest of their US and global counterparts and are now part of the next generation of physicians and physician-scientists serving this region and the rest of the world.

In addition to the new and innovative model of undergraduate medical education at WCM-Q, Dean Sheikh has also built the first Academic Center for Translational and Clinical Research, where the collaborative work of clinicians and scientists is focused on the unique populations of the MENA region. Under his leadership, WCM-Q has attracted a critical mass of world-class educators, biomedical scientists, medical and public health specialists who are actively fulfilling Qatar's national vision of transforming itself from a petrochemical to a knowledge-based economy with the objective of improving the lives of its citizens. To support the ongoing professional development of healthcare practitioners Dean Sheikh established a Division of Continuing Professional Development at WCM-Q that is currently recognized by Qatar's Supreme Council of Health as a major provider of continuing education for all practicing physicians, nurses and allied healthcare providers. Additionally, he founded and co-edits a new academic journal, *Innovations in Global Medical and Health Education*, dedicated to providing an accessible international platform for profiling, discussing and debating innovations in the rapidly growing field of global medical and health education.

During his tenure at WCM-Q, Dean Sheikh has led the conceptualization and implementation of comprehensive programs to advance health promotion and disease prevention for the general population of Qatar by cultivating healthy behaviors in school age children, and by designing and conducting population-based, longitudinal studies to assess the efficacy of these interventions.

In recognition of his leadership role in education and public health policy making, Dean Sheikh has been asked to serve on a number of national health policy committees including his role as Co-Chair of the Joint Steering Committee of Qatar's Academic Health System and as a member of the Qatar Council on Health Practitioners Board of the Ministry of Public Health as well as the Executive Committee of the Board of Governors of Sidra Medicine.

Prior to joining WCM-Q in 2007, Dean Sheikh built a distinguished career as Professor of Psychiatry and Behavioral Sciences, Associate Dean and Chief of the Medical Staff and Chairman of the Board of the Palo Alto Institute for Research and Education at the prestigious Stanford University School of Medicine and the Veterans Administration Palo Alto Health Care System in California. At Stanford, Dr. Sheikh published the first studies exploring the impact of aging on anxiety disorders, while delineating differential sleep architecture in various anxiety disorders. His work was funded both by the NIH and private sources and resulted in more than 140 publications and more than 100 abstracts in peer reviewed scientific journals.

Joanne Spetz, Ph.D. (*Planning Committee Member*), is a Professor at the Institute for Health Policy Studies, Department of Family and Community Medicine, and School of Nursing at the University of California, San Francisco. She is the Associate Director for Research at the Healthforce Center at UCSF and the Director of the UCSF Health Workforce Research Center for Long-Term Care. Her fields of specialty are economics of the health care workforce, shortages and supply of registered nurses, organization and quality of the hospital industry, impact of health information technology, effect of medical marijuana policy on youth substance use, and the substance use disorder treatment workforce.

Joanne's teaching is in health care financial management, health economics, and quantitative research methods. She teaches in the UCSF-UC Hastings Health Policy and Law, UCSF-UC Berkeley Masters in Translational Medicine, and UCSF Master of Science in Health Administration and Interprofessional Leadership (MS-HAIL) programs. She also serves on dissertation committees and mentors post-doctoral scholars.

Joanne is an Honorary Fellow of the American Academy of Nursing. She received a Mentorship Award from the Interdisciplinary Research Group on Nursing Issues of AcademyHealth. Joanne was a member of the Institute of Medicine Standing Committee on Credentialing Research in Nursing and a consultant to the Institute of Medicine Committee on the Future of Nursing. She frequently provides testimony and technical assistance to state and federal agencies and policymakers. Joanne received her Ph.D. in economics from Stanford University after studying economics at the Massachusetts Institute of Technology.

Kate Tulenko, M.D., M.P.H., M.Phil, FAAP (*Planning Committee Member*), serves as CEO of Corvus Health, a global health workforce services company which provides recruitment, staffing, training, TeleHR, HR management, quality improvement, and advisory services. She is a globally recognized expert in health workforce and health systems strengthening. Previously, Dr. Tulenko served as Vice President, Health Systems Innovation, for IntraHealth International, as Director of CapacityPlus, USAID's flagship global health workforce project, and coordinator of the World Bank's Africa Health Workforce Program. She has received a Rainer Arnhold Fellowship for innovation in global development, was named one of "300 Women Leaders in Global Health" by the Geneva Graduate Institute of Development Studies, has published widely, including in the New York Times and Foreign Policy, and is an occasional global health commentator for CGTN. She has degrees from Harvard, Cambridge, the Johns Hopkins School of Medicine, and the Johns Hopkins School of Public Health.

Charnetia Young, Manager of Workforce Programs, CVS Health

Launette Woolforde, Ph.D., has served in various roles in the clinical setting in medicine, surgery, and critical care; as well as in the academic setting as a professor at several schools of nursing. Currently, Launette is Vice President for Nursing Education and Professional Development at Northwell Health and Asst. Professor at the Hofstra-Northwell School of Medicine.. Northwell Health, comprised of 23 hospitals and 650+ outpatient centers, is the largest employer in New York State. There she oversees a broad scope of strategic efforts and education programming that impacts the health networks 67,000+ employees including its 17,000+ nurses.

Launette earned numerous degrees including a Doctor of Nursing Practice from Case Western Reserve University and a Doctor of Education from Teachers College, Columbia University. Launette co-authored the current Scope and Standards of Practice for Nursing Professional Development and is a member of the Board at the National League for Nursing (NLN) and the Association for Nursing Professional Development (ANPD), and a Fellow of the New York Academy of Medicine.

Brenda Zierler, Ph.D., R.N., FAAN, Professor, Department of Biobehavioral Nursing and Health Systems, University of Washington School of Nursing is the representative from the American Academy of Nursing, Dr. Zierler is a health services researcher and conducts research exploring the relationships between the delivery of health care and outcomes—at both the patient and system level. In the last 10 years, she has focused on the implementation and evaluation of interprofessional education and collaborative practice and is now leading efforts in the science of team science for interprofessional research teams. Her primary appointment is in the School of Nursing at the University of Washington, but she holds three adjunct appointments – two in the School of Medicine and one in the School of Public Health. Currently, Dr. Zierler is Co-PI on a Josiah Macy Foundation-funded grant with Dr. Les Hall, to

develop a national train-the-trainer faculty development program for interprofessional education and collaborative practice. She also leads two HRSA training grants - one focusing on interprofessional collaborative practice for advanced heart failure patients at UW's Regional Heart Center and the other focusing on an education-practice partnership to improve advanced heart failure training and outcomes for rural and underserved populations in an accountable care organization (UW Medicine). Dr. Zierler is the Co-Director of Research and Training for the UW Center for Health Sciences Interprofessional Education, Research, and Practice. She is also the Director of Faculty Development for the UW's WWAMI Institute for Simulation in Healthcare for UW Medicine. Dr. Zierler is a Board Member and past-Chair of the American Interprofessional Health Collaborative, and a member of the IOM Global Forum on Innovation in Health Professions Education.