

J. Patrick Fitch, Ph.D.

J. Patrick Fitch, Ph.D., is Laboratory Director for the National Biodefense Analysis and Countermeasures Center (NBACC) and the President of Battelle National Biodefense Institute, LLC (BNBI). BNBI manages and operates the NBACC national laboratory for the Department of Homeland Security as a Federally Funded Research and Development Center established in 2006. The NBACC mission is to provide the nation with the scientific basis for characterization of biological threats and bioforensic analysis to support attribution of their use against the American public.

Dr. Fitch joined Battelle in 2006 as Vice President for Biodefense after more than 20 years of experience leading multidisciplinary applied-science teams at the University of California's Lawrence Livermore National Laboratory (LLNL). From 2001 to 2006, he led the LLNL Chemical and Biological National Security Program (CBNP), with programs spanning applied science to deployed systems. CBNP accomplishments included performing more than five million assays on national security samples; monitoring special events; 24/7 reach-back; designing and supporting a nationwide bio-alert system; and designing signatures for validated assays in the CDC Laboratory Response Network and the National Animal Health Laboratory Network. CBNP applied science programs in bioinstrumentation and pathogen biology led to three R&D 100 awards and "most accessed" articles in *Analytical Chemistry* and *J. Proteome Research*.

Dr. Fitch has authored several books and book chapters, including *An Engineering Introduction to Biotechnology* and *Synthetic Aperture Radar*. He has chaired and served on several panels of the National Academies. His advisory and board activities have included U.S. Animal Health Association, Texas A&M University DHS Center of Excellence, Central Florida University (College Engineering), Colorado State University (College of Engineering), Pacific Northwest National Laboratory, Sandia National Laboratories, California State Breast Cancer Research Program, and *Biomolecular Engineering*. Dr. Fitch was a Fellow of the American Society for Laser Medicine and Surgery and an Associate Editor of *Circuits, Systems and Signal Processing*. He has received two national awards for medical devices, a technical writing award for an article in *Science*, and an international IEEE best paper award. He also co-invented the technology, developed the initial business plan, and successfully raised venture investments for a medical device start-up company. Dr. Fitch received his Ph.D. from Purdue University and B.S. degrees from Loyola College of Maryland.