

SPEAKER BIOGRAPHIES



Maria Ayerdi

Retired Executive Director, Transbay Joint Powers Authority

Ms. Ayerdi founded the Transbay Joint Powers Authority. She developed the strategy and vision for the new Transbay Transit Center and advanced the Program and its associated 40-acre real estate development through regulatory approvals at the federal, state, regional and local levels of government. She also secured billions in funding for the Program's completion from public and private sources. Additionally, Ms. Ayerdi spearheaded the stakeholder processes that generated vast support for the Transbay Program and brought it to fruition.

During Ms. Ayerdi's tenure, she presided over the international design completion that selected the architect and vision for the program, as well as led a diverse team of hundreds of subject matter experts, including engineering, design, finance, legal, security, construction, marketing and public relations professionals. After 18 years as leader of the Transbay Program and having brought the new Transit Center within less than two years of opening, Ms. Ayerdi retired from the Project to pursue other opportunities.

Ms. Ayerdi's accomplishments on the Transbay Program have been recognized by many organizations. Among her honors are being named a Top 25 Newsmaker of 2015 by Engineering News Record, as well as receiving the Applied Technology Council and Structural Engineering Institute Award for Extraordinary Innovation in Seismic Protection of Buildings in 2015, the Women's Construction Owners and Executives Influential Woman in Business Award of 2015, and the San Francisco Business Times' 2014 Real Estate Deal Maker of the Year Award for negotiating the sale of TJPA property for the construction of the Salesforce Tower for \$192 million, at the time the highest price paid per square foot of land in San Francisco. In 2013, she was also inducted as a member of the Lambda Alpha International Honorary Society for the Advancement of Land Economics.

Ms. Ayerdi is a graduate of the University of California, Berkeley and the University of California, Hastings College of Law. She is a member of the State Bar of California.

Amy Basche

Washington River Protection Solutions, LLC EFCOG EVMS Subgroup Lead

Amy Basche is the Project Support Services Manager with Washington River Protection Solutions/AECOM at the Hanford Tank Farms. Ms. Basche is responsible for the overall business management and project integration needs of a multi-billion dollar contract for DOE-EM. These areas include Prime Contract Management, Project Integration including Project Controls, Risk Management, and Interface Management, Business Services such as finance and procurement, Workforce/Human Resources, Communications, and Employee Concerns.

Ms. Basche has spent 25 years at the Hanford Site in various roles. She has an expert understanding of the operational needs of the facility, with a balanced business perspective in management of a complex and successful DOE Contract. Ms. Basche has been a part of the EFCOG Project Delivery Working Group for many years and the chair of the Project Control/EVMS Subgroup for 4 years. In this role, Ms. Basche has helped coordinate the community of Project Control/EVMS talent at the respective DOE sites to help develop and advance an earned value management approach which improves project reporting, control, and self-governance.



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Paul Bosco

Director, Office of Project Management Oversight and Assessments, U.S. Department of Energy

Paul Bosco serves as the Director of the Office of Project Management Oversight and Assessments. This office validates the project performance baselines, to include scope, cost and schedule, of the Department's largest construction and environmental clean-up projects prior to budget request to Congress; an active project portfolio totaling over \$30 billion. This Office also conducts project assessments for projects that are \$100M or greater in the Environmental Management portfolio; develops and oversees implementation of Department-wide project management-related policies, procedures and systems; develops and maintains a Departmental program of on-site assistance, assessment, evaluation, and analysis of contractor's earned value management systems; and manages the Project Management Career Development Program (PMCDP) to include the professional development, training and certification for the Department's Federal Project Directors.

Within the Department, Mr. Bosco also served as the Director of the Office of Acquisition and Project Management (APM) and Senior Procurement Executive from May 2012 through July 2015, the Director of the Office of Engineering and Construction Management (OECM) and Senior Real Property Officer from November 2006 through May 2012, and the Director of the Office of Procurement and Assistance Management (OPAM) December 2011 through May 2012. Prior to that, he served in the United States Navy nearly 28 years, as a member of the Navy's Civil Engineer Corps (CEC) and Seabee Community. In that capacity, he held various assignments in a dozen different locations, predominately involved in real property and project management, executing construction programs and projects worldwide.



Tony Ermovick, PE, CCP, CEM

Division Chief, Departmental Project Oversight Office of Project Management Oversight and Assessments, U.S. Department of Energy

Tony Ermovick has over 25 years in construction management, project management, and contract administration as an active duty officer with the Navy's Civil Engineer Corps. Since 2011, he has been with the Department of Energy's Office of Project Management Oversight and Assessments (PM), where he has participated in or lead numerous NNSA, EM, NE and EERE capital asset project cost estimates, cost reviews, and external independent project reviews ranging in project value of \$10 million to over \$16 billion. He is a registered professional Civil Engineer and maintains active Certified Cost Professional and Certified Energy Manager credentials.



Melvin Frank, PMP

Director, Office of Project Management Policy and Systems Office of Project Management Oversight and Assessments, U.S. Department of Energy

Melvin Frank has over 25 years of engineering and project management experience in the public and private sectors. After serving five years as an officer in the Naval Nuclear Propulsion Program (NNPP), an integrated program carried out by the Department of Energy and the Department of the Navy, he spent 11 years as a contractor consultant to various agencies of the federal government, including technical support to the Nuclear Regulatory Commission, and project management support to the DOE Office of Environmental Management (EM) and the Department of Health and Human Services. While supporting EM's Project Management Support Office, Mr. Frank participated in numerous Independent Project Reviews across the DOE complex. As a DOE employee he worked two years in the Office of Program Analysis and Evaluation, before joining the Office of Project Management Oversight and Assessments (originally the Office of Engineering and Construction Management and then the Office of Acquisition and Project Management). During this time, he has reviewed and assessed most of DOE's major capital asset acquisition projects and programs, and now serves as Director of the Office of Project Management Policy and Systems where he is responsible for development and interpretation of Departmental project management policy and guidance, development and operation of the Project Assessment and Reporting System (PARS), and policy and compliance assessments for Earned Value Management. Mr. Frank has a BS in Chemical Engineering from the University of North Dakota and a Certificate of Completion in Nuclear Reactor Engineering from Bettis Reactor Engineering School.



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G. Edward Gibson, PhD, PE, NAC

Director, School of Sustainable Engineering and the Built Environment Arizona State University

Dr. Gibson is currently the Director of the School of Sustainable Engineering and the Built Environment (SSEBE) at Arizona State University where he oversees several educational programs encompassing over 60 faculty and 75 staff members, 1700 students, research expenditures of over \$16.5 million per annum, \$19 million in endowments, and a yearly operational budget of over \$10 million. He recently led development and significant fundraising for a new 130k gsf building on campus that houses his School. In addition to ASU, he has served on the faculty of North Carolina State, University of Texas at Austin and University of Alabama, Tuscaloosa. His educational background includes a B.S. and Ph.D. in Civil Engineering from Auburn University and an M.B.A. from the University of Dallas.

Dr. Gibson has been PI or co-PI on almost \$9.5 million worth of funded research in his career with research and teaching interests that include front end planning, organizational change, asset management, alternative dispute resolution and risk management among others; he has received many awards for excellence in research and teaching. He is the developer of the CII Project Definition Rating Index tools, has consulted with over 60 organizations, and taught over 200 short courses to industry. He has been active on many national committees, among them several National Research Council committees, Department of Energy (DOE) Committees, the Architectural Engineering Institute, and also served as a Fulbright Senior Specialist in Norway in Fall 2004. He is currently a Board member of the Project Leadership Institute (PLI) of DOE. Dr. Gibson has several years of industry experience, served as an Army officer, and is a licensed professional engineer in Texas. He is an elected member of the National Academy of Construction and a Fellow in the American Society of Civil Engineers. He was awarded the 2016 ASCE R. L. Peurifoy Award for outstanding research.



William Hamel

Assistant Manager/Federal Project Director, Waste Treatment and Immobilization Plant Office of River Protection

U.S. Department of Energy

In December 2012, William (Bill) Hamel was named the Waste Treatment and Immobilization Plant (WTP) Assistant Manager/Federal Project Director for the U.S. Department of Energy (DOE), Office of River Protection. In this position, Mr. Hamel manages all aspects of the WTP Project and works closely with the DOE Office of Environmental Management, department field offices, national laboratories, and project contractors to ensure smooth and efficient project execution and resolution of the project's technical issues.

Since 2013, Mr. Hamel has led the WTP through high profile, key project accomplishments such as returning to High-Level Waste Facility Production Engineering; Direct-Feed Low-Activity Waste Facility, Balance of Facilities, and Analytical Laboratory rebaselining and associated contract modification; and most the recently resolution of the complex WTP technical issues concerning criticality and hydrogen accumulation in ancillary equipment, piping, and vessels.

Mr. Hamel previously served as the Assistant Manager for Infrastructure Support at the Idaho Operations Office. In this capacity, he was responsible for all nuclear operations and capital projects in support of the Idaho National Laboratory, including the Advanced Test Reactor Complex, Materials and Fuel Fabrication Complex, and in-town laboratory facilities.

Prior to Mr. Hamel's tenure at the Idaho Operations Office, he was the DOE High-Level Waste Projects Team Leader for the West Valley Demonstration Project (WVDP) and was integral to the design, construction, operational readiness and startup, and successful operations of the WVDP Vitrification Facility.

Mr. Hamel holds a Bachelor of Science degree in Chemistry from Canisius College in Buffalo, New York



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Edward J Hoffman, PhD Principal Investigator

Dr. Hoffman is CEO of Knowledge Engagement LLC, a company providing research, education, and consulting services at the strategic organizational level. He works as a Strategic Advisor for Project Management Institute, with a focus on integrated systems for talent management, knowledge engagement and learning strategies. Dr. Hoffman serves as an Executive in Residence at the Columbia University School of Professional Studies. Having retired from NASA as a Senior Executive after thirty-three years of service, he was appointed the first NASA Chief Knowledge Officer in 2011 and held responsibility for system-wide strategy, integration and deployment of knowledge services. Prior to this role, Dr. Hoffman was the founding Director of the NASA Academy of Program/Project and Engineering Leadership (APPEL) for over 20 years.



Ralph Holland

Deputy Assistant Secretary for Acquisition and Project Management/CBC Director Office of Environmental Management, U.S. Department of Energy

Ralph Holland serves as the Office of Environmental Management's (EM) Deputy Assistant Secretary, Office of Acquisition and Project Management. In this capacity, he serves as the EM Head of Contracting Activity and is responsible for contract placement; contract management; project management policy development; and oversight of EM's portfolio with total contract values ranging from \$50-60B. He also serves as the Director of the Environmental Management Consolidated Business Center (EMCBC) which provides business, personnel, safety, and other technical environmental management support to EM field offices. Mr. Holland has served in various contracting, supervisory, and management positions within DOE over the past 23 years, notably in the role of Deputy Director of the EMCBC and as EMCBC's Assistant Director, Office of Contracting. These positions are associated with environmental cleanup activities at former nuclear weapons production facilities throughout the United States.

Prior to joining the Department, Mr. Holland served in supervisory and managerial positions with the Defense Logistics Agency. In this capacity, he had acquisition responsibility for a broad range of goods and services, which included weapons systems components, research and development, and construction.

Ralph holds a Bachelor of Arts degree in management from Antioch University in Yellow Springs, Ohio and is a Level III Certified Acquisition Professional.



Marianne M. Jennings

Emeritus Professor of Legal and Ethical Studies W.P. Carey School of Business, Arizona State University

Marianne M. Jennings, Emeritus Professor of Legal and Ethical Studies, has taught at the WP Carey School of Business, Arizona State University from 1977 through the present. She has six textbooks and four monographs in circulation in the areas of business ethics, ethical culture, and legal environment. She was director of the Lincoln Center for Applied Ethics from 1995 to 1999. She has worked with government agencies, professional organizations, colleges and universities, and Fortune 100 companies on ethics training and culture. She is a contributing editor of Corporate Finance Review and Real Estate Law Journal. Two of her books have been named Library Journal's book of the year. Her books have been translated into three languages. Her book, The Seven Signs of Ethical Collapse, was published by St Martin's Press and has been used as both an audit tool and a primer by numerous organizations for creating and sustaining an ethical culture.

She served on the board of directors for Arizona Public Service (now Pinnacle West), the owner of the Palo Verde Nuclear Station, from 1987 through 2000. She has served on INPO's advisory council since 2005. In 2015, she was named an affiliated scholar with the Center for the Study of Economic Liberty at Arizona State University. She conducts ethics training and ethical culture assessments for businesses, including Fortune 100 companies, government agencies, professional associations, and nonprofit organizations.



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David Kester

Program Analyst, Office of Project Management Policy and Systems U.S. Department of Energy

David Kester is a Program Analyst for the Department of Energy's Project Management Policy and Systems (PM30) Division. He supports the deployment of policies and assessment methods, and the responsibility for reviewing contractor EVMS plans and verifying initial and continuing compliance with EVMS criteria.

Mr. Kester has over 28 years of program management experience in both public and private sectors working for the National Security Agency, Booz Allen & Hamilton, the Naval Air System Command, and the Defense Contract Management Agency (DCMA) prior to his current work with the Department of Energy. He holds a Bachelor of Science degree in Industrial Management, and a Master of Science degree in International Management and Commerce. Mr. Kester is a certified Acquisition Professional in the DAWIA Business, Cost Estimating and Financial Management (BCF) and Program Management (PMT) career fields, and holds DCMA Earned Value Management Certification Program credentials.



Joe Lukas

Vice-President, PM Centers USA

Joe Lukas has been involved in project management for over 35 years. His work experience spans engineering, manufacturing, construction, project controls, estimating, contracting and project, program and portfolio management. His projects experience includes information systems, product development, construction and manufacturing. Joe joined PMI in 1986 and has held many Chapter Board positions in Rochester, NY including two terms as President. He is a registered Professional Engineer, Project Management Professional, Certified Scrum Master and Certified Cost Professional. Joe has over 50 published articles on project management topics, and is a frequent guest speaker for companies and organizations across the country. Joe teaches and consults on project management topics such as risk management, earned value, scheduling and interpersonal skills.



John Makepeace, PMP

Executive Manager for Secretarial Project Management Boards DOE Office of Project Management Oversight and Assessments (PM)

John Makepeace supports the Office of Project Management Oversight and Assessments as the Executive Manager for both the Energy Systems Acquisition Advisory Board (ESAAB) and the Project Management Risk Committee (PMRC). He is also responsible for developing and maintaining the Office's web presence including the new PM-MAX and other collaboration tools which support the ESAAB, PMRC and Certification Review Board. Earlier in his DOE career John was the project manager responsible for developing and deploying the Department's Project Assessment and Reporting System II (PARS II) and the M&O Subcontract Reporting Capability (MOSRC). John also led the development of the initial set of eighteen DOE 413.3 Guides and he planned and hosted the first six annual DOE Project Management Workshops from 2006 to 2012.

Previously, John served as Chief of Staff for the Department of Homeland Security's Resource Management Transformation Office and was a founding member of the Business Modernization & Systems Integration group in the Office of the Under Secretary of Defense (Comptroller). He holds a Master of Science in Management Information Systems from the University of Colorado and Bachelor of Science in Business Administration from the University of Northern Colorado. John is a certified Project Management Professional.



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Pamela A. Marks
Federal Project Director, Salt Waste Processing Facility Project Office

Pamela (Pam) A. Marks is the Federal Project Director for the Salt Waste Processing Facility Project Office (SWPFPO) for the U.S. Department of Energy (DOE) Savannah River Operations Office (DOE-SR) at the Savannah River Site (SRS) in Aiken, SC. Ms. Marks has more than 30 years of experience working in the nuclear industry managing and operating large manufacturing and technical services operations for the commercial nuclear industry and the U.S. Government. Ms. Marks provides executive leadership to project execution, contract management and oversight of all contractor and Federal activities associated with the project's planning and implementation.



Stephen W. Meador

Associate Director, Office of Project Assessment, U.S. Department of Energy

Stephen W. Meador was appointed as the Associate Director for the Office of Science (SC) for the Office of Project Assessment (OPA) in the U.S. Department of Energy (DOE) on August 24, 2014.

Steve has spent more than a decade with OPA as a Senior Technical Advisor and Engineering and Construction Manager. During that time, he has gained broad and deep experience in evaluating science facility construction projects, usually focusing on the very largest projects in SC. In addition, he has more than 20 years' experience evaluating, integrating, and managing large, complex environmental regulatory and cleanup programs and projects.

OPA plays an essential role in defining and upholding SC's high standards for project management. Its work is vital to successful execution of SC's major projects. As head of OPA, Steve will serve as one of the Associate Directors for SC. He will be responsible for conducting independent technical, cost, schedule, and management peer reviews of SC construction projects; developing and implementing policies, plans, and procedures related to SC projects; and managing the federal technical and administrative staff in OPA. Steve is located at DOE's Germantown facility.

Steve has a B.S. in Mining Engineering, and an M.S. in Organizational Learning. He is a Registered Professional Engineer.



Linda Ott

Professional Development Division, U.S. Department of Energy

Linda Ott leads the PMCDP team utilizing her human capital expertise and adult learning background to focus on program course delivery, curriculum evaluation, and work force development. Formerly Linda worked with the Federal Acquisition Institute as the program manager for human capital initiatives including the Federal Acquisition Certification programs, assessing the acquisition workforce, and recruitment and retention of Acquisition talent.

Ms. Ott holds a Bachelor of Science in Computer Science from the Pennsylvania State University, Masters in Education from University of Maryland, Project Management Certificate from Villanova University, and is a Project Management Institute Project Management Professional (PMP).

Linda lives in Maryland with her husband and two dogs.



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Igor Pedan, PMP, PSM, ITIL, CISO

Office of Project Management Oversight and Assessments, Project Management Policy & Systems U.S. Department of Energy

Mr. Pedan joined the DOE PM in 2013 and he is responsible for leading technology strategy, development, and maintenance of the PM project management systems and capabilities.

Prior to joining the Department of Energy, Mr. Pedan was a Program Manager with a California-based Project Management Information Systems consulting firm responsible for software product development and IT service delivery. He was the integral part of a successful initial delivery and integration of the PARS II system into the DOE environment. In a prior role, Mr. Pedan worked for TransCore L.P. managing product development and large-scale system implementation initiatives focused on supply chain management and logistics services. In this role he was responsible for the deployment of the "first of its kind" Supply Chain Management System delivered through a Software-as-a-Service (SaaS) IT service model.

Mr. Pedan graduated from Kennesaw State University with a B.B.A. in Finance and Management of Information Systems in 2001 and earned his MBA from Coles College of Business in 2005. In addition, Mr. Pedan holds professional certifications in Project Management, Information Assurance/Cybersecurity, Agile IT Systems Development, and IT Service Management.

Robert B. Raines

Associate Administrator for Acquisition and Project Management

With over 30 years of experience in construction management, design management, utilities systems operations, employee development, budgeting and contracting, Robert B. Raines serves as the Associate Administrator for Acquisition and Project Management (APM).

Bob comes to NNSA from DOE's Office of Engineering and Construction Management where he served as the Director for Project Management Systems and Assessments since 2008. Prior to joining the Department, he worked for CH2M HILL where he was responsible for environmental remediation work for the U.S. Navy. Bob served for 27 years in the Navy's Civil Engineer Corps retiring as a Captain after two Command tours.

In addition to leading organizations of up to 900 personnel, Bob has been responsible for developing strategic objectives, ensuring client satisfaction, developing innovative contracting and work execution strategies, accomplishing work on schedule and within budget, and providing a positive work environment for all team members. Bob is a Registered Professional Engineer and a Federal Acquisition Professional (Level III Warrant).

Senior Architect/Senior Design Manager

Brenda Sanchez, FAIA, NCARB, LEED AP BD+C

Office of Planning, Design and Construction, Smithsonian Institution

A graduate of the University of Maryland in College Park, Md., and the Istituto per l'Arte e Restauro in Florence, Brenda Sanchez has practiced Architecture for over 25 years leading numerous projects in planning, architecture, and facilities management.

Before joining the Smithsonian Institution in 2004, where she serves as the Sr. Design Manager leading the design team for the National Museum of African American History and Culture, she was a Project Manager at the office of the University Architect at American University. She owned the firm Brenda Sanchez Architects for nine years and previously worked in various architectural positions for such award winning firms as Francis Lethbridge and Associates, Devreaux and Purnell, and Noakes Associates Architects.

Ms. Sanchez was elevated to Fellow of the American Institute of Architects in 2012. She served as the Chair of the DC Board of Architecture and Interior Design for ten years, served as Chair of the Mid-Atlantic Region of the National Council of Architectural Registration Boards, and represents NCARB in NAAB's accreditation visits to architectural programs in Universities across the Nation.







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Jordan Sims

Director of Organization Relations and Programs, Project Management Institute

Jordon Sims is the Director of Corporate & Government Relations for the Project Management Institute. In his current role, Jordon is responsible for overseeing PMI's relationships around the globe for both the public and private sector. He ensures the most effective approach for industry leading corporations and governments to realize positive business results through effective project, program, and portfolio management.

Jordon is responsible for PMI's strategic engagement across the Americas (US, Canada, & Latin America) and Austral-Asia with corporations, federal agencies/ministries, and parliamentary/legislative bodies. Jordon leads the PMI Global Executive Council, an elite network of professionals from leading companies, governments and organizations. He has also provided global perspective as a contributor to the World Economic Forum regional business working groups for developing and evolving economies in the areas of long term investment planning and infrastructure development.

Prior to joining PMI, Jordon served over ten years as a nuclear trained submarine officer in the US Navy and held several unique positions as foreign liaison to the Chief of Naval Operations, Chairman of the Joint Chiefs of Staff, and Secretary of Defense. He was selected as a Defense Legislative Fellow and served on the personal staff of a senior Member of the US House of Representatives Appropriations Committee. In his capacity as defense advisor, Jordon handled all aspects of both the State Department and Department of Defense budgeting and funding process. Jordon's variety of assignments also included work as Special Assistant to the Director of Naval Nuclear Propulsion (Naval Reactors) in a dual-hatted Department of Defense and Department of Energy role. He was responsible for all aspects of governmental affairs for the US submarine and aircraft carrier programs. Jordon holds a Bachelor of Science (BS) in Economics from the US Naval Academy, and a Master of Engineering Management (MEM) from Old Dominion University.



Sandi Tracy

EVMS Compliance Manager, Consolidated Nuclear Security (CNS), LLC

Mrs. Tracy is currently the CNS EVMS Compliance Manager for both Y-12 and Pantex DOE sites, and is responsible for developing the Project Controls and Project Management functional organization work execution tools, processes and procedures, and ensuring appropriate training and compliance of these approved processes.

Sandi has more than 47 years experience with in Project Controls, Estimating, and Project Management in both the private and Federal sectors. Sandi's current assignment is to obtain a CNS EVMS Certification for the new contract at both Y-12 and Pantex and support DOE in a Pilot Project for finalizing the new DOE EVMS Interpretive Handbook and Data Driven review process. Relevant experience includes managing an integrated organization in the development and implementation of cost, schedule, and reporting tools in full compliance with DOE Orders. She is an experienced assessor for evaluating Project Controls, Project Management and performing financial assessments and analysis of a project's health. She is a certified Earned Value Professional through AACEI, and has a BS in Business Management.

David Trimble

Director, Natural Resources and Environment, U.S. Government Accountability Office

David Trimble serves as a Director in the U.S. Government Accountability Office's Natural Resources & Environment group in Washington DC. Mr. Trimble provides leadership and oversight on US and International Nuclear Security and Cleanup issues. He previously led work on environmental issues including, controlling toxic substances, clean water and clean air issues, Superfund and EPA management. Mr. Trimble joined the U.S. Government Accountability Office in April 2009. Previously Mr. Trimble worked for nine years at the Department of State's Political Military Affairs Bureau as the Director of the Office of Defense Trade Controls Compliance where he was the senior official responsible for export compliance and enforcement issues. From 1986 to 2000, Mr. Trimble worked for the GAO in field offices as well as GAO Headquarters covering a wide range of issues. He has an MA in Policy Analysis from the University of Chicago and a BA in Philosophy from Lawrence University.



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Mark Watts

Associate Director for Project Management, Los Alamos National Laboratory

Mark Watts is currently the (Acting) Associate Director for Project Management at the Los Alamos National Laboratory (LANL), leading an organization of over 1200 professionals and building trade personnel executing all site-wide capital project work, facility maintenance, and a variety of site services. Mark arrived at LANL in November of 2015 where his initial assignment included responsibility for re-certification of the LANL EVMS.

Mark brings over twenty-five (25) years of project and corporate level leadership, management, and transformation experience in support of U.S. DOE/NNSA nuclear energy, weapons, science, and environmental management programs and facilities, both nuclear and non-nuclear. Mark provides a wide breadth of experience that includes project management, procurement, contracting, material/property management, nuclear and industrial safety, quality assurance/control, and business development.

Mark has been affiliated with the Bechtel Corporation for the past 18 years with prior affiliations with Kaiser Engineers, Morrison-Knudsen, and Lockheed Martin.