**Jay Tiley, PhD, FASM**

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EDUCATION **Doctorate of Philosophy, Materials Science, The Ohio State University, 2003**

**Masters of Science in Materials Engineering, The Ohio State University, 2000**

**Masters of Science in Environmental Management and Engineering, Air Force**

**Institute of Technology, 1994**

**Masters of Science in Systems Engineering, Wright State University, 1991 Bachelors of Science in Systems Engineering, Mechanical Systems, Wright State University, 1987**

SECURITY **Q, (Top Secret)**

CLEARANCE

YEARS OF **35**

EXPERIENCE

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| SPECIALIZED /  MILITARY EDUCATION | **USAF AF Military Personnel Management, 2017**  **USAF AF Civilian Personnel Management, 2009**  **Air War College, 2001**  **AFRL Management and Leadership Training, 2010** |
| PROFESSIONAL CERTIFICATIONS | **Fellow of ASM International**  **DAWIA Acquisition Corp Qualified, 1994**  **AF DACM Certified Research, Development and Engineering (Level III), Science and**  **Technology Manager (Level III), Program Management (Level III)**  **Professional Engineer (PE), (currently inactive)** |
| CORE  COMPETENCIES | **Program Management, Materials Research, Team Development and Leadership** |
| CAREER SUMMARY | Dr. Tiley is a proven leader in the materials development and research community with over 30 years of government service across many organizations. He has accumulated a broad experience base that includes team leadership and program execution at multiple organizational levels. This includes building and executing engineering and collaborative research programs at manufacturing and repair centers, national laboratories, academic institutions, and private industrial facilities, in close collaboration with the Department of Energy, Department of Defense, and National Science Foundation. Dr. Tiley has mentored and guided many researchers and taught both graduate and undergraduate engineering courses for multiple universities, supporting numerous thesis and dissertation graduate committees. |

EXPERIENCE

**Oak Ridge National Laboratory, Oak Ridge TN Oct 2020 to Present**

**Section Head, Materials Structures and Processing Section**

Section Head for the Materials Structures and Processing Science Section within the Materials Science and Technology Division of Oak Ridge National Laboratory. Duties involve managing the Materials for Advanced Manufacturing, Alloy Behavior and Design, Materials Processing, and Materials Joining and Welding research groups. This includes building and executing advanced collaborative research projects and diverse teams on materials processing and evolution within high temperature metal and ceramic materials. The section employs over 70 researchers and engineers working diverse basic and applied science topics for industrial, academic, and government agencies.

**Air Force Office of Scientific Research, Arlington VA Feb 2017 to Oct 2020 Portfolio, Team Lead**

Portfolio Manager for Multiscale Structural Materials Program, and the Low Density Materials Program. In addition, Section Lead for Engineering and Information Science Branch and Chair of the Structural Materials Working Group (6-member team encompassing materials related basic science needs). Duties included developing and executing materials related research directions in support of mission requirements. This included establishing collaborative agreements and projects with government, academic, and industry partners aimed at sharing facilities, materials, expertise, and transition opportunities. Program workload involved approximately 90 active research projects.

**Materials and Manufacturing Directorate, Air Force Research Laboratory Jan 2006 to Dec 2014 Senior Materials Engineer/Program Manager**

Led development efforts with international companies to create and transition new titanium and nickel base superalloys for use in turbine propulsion systems. This included integration of academic and government research activities with industrial development efforts aimed at modeling advanced metallic processes and manufacturing alloys. In addition, Program Manager responsible for developing and executing technology transition programs in support of the Aeronautical Equipment Systems Program Office. Technologies included advanced hydraulic ystems, material substitution efforts, software development programs, and repair procedures for airframe components.

PROFESSIONAL **Member, ASM International (Fellow)**

AFFILIATIONS **Member, The Minerals, Metals, and Materials Society**

**Adjunct Professor, University of Dayton**

**Adjunct Professor, Wright State University**

**ASM Editorial Committee, (Chair 2014-2016)**

PUBLICATIONSDr. Tiley has authored over 100 refereed journal articles and holds multiple patents. In addition, he has organized dozens of international symposia, conferences, and technical workshops involving a vast variety of materials development and manufacturing research activities.

Select Publications:







