



28 May 2020 Meeting

Global Meet (virtual)

“Georgia Tech’s Professional Masters in Applied Systems Engineering (PMASE) ”

Dr. Dmitri Mavris
Georgia Institute of Technology

Agenda:

5:00-5:15 pm: Remarks from Chapter President

5:15-6:15 pm: Program

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“Georgia Tech’s Professional Master’s in Applied Systems Engineering (PMASE)”

Abstract

Inaugurated in 2009, the Professional Master’s in Applied Systems Engineering (PMASE) was the first professional master’s degree at Georgia Tech. The degree program is designed for experienced professionals interested in building and expanding their systems engineering expertise. The intended applicants are individuals with five or more years of work experience in an engineering or hard-science occupation. The PMASE curriculum is focused on enhancing the skills and knowledge that engineers need in a competitive, global environment. Through the program, students develop a core understanding of complex systems and learn how to apply concepts and techniques to solve real-world challenges.

PMASE is a two-year program that consists of six core courses on systems engineering fundamentals, modeling and simulation, SysML, and system design. An additional four courses provide a specialization in complex systems. The program’s hybrid format blends face-to-face instruction and online learning, enabling PMASE students to work full time while earning a two-year advanced degree.

Prof. Dimitri Mavris was named the Executive Director of the PMASE program in August 2019.

Speaker Bio

Dimitri Mavris earned his B.S. (1984), M.S. (1985), and Ph.D. (1988) in Aerospace Engineering from Georgia Tech. He is the Boeing Chaired Professor of Advanced Aerospace Systems Analysis in Georgia Tech’s School of Aerospace Engineering, Regents Professor, and an S.P. Langley NIA Distinguished Professor. Additionally, he is the Director of its Georgia Tech Aerospace Systems Design Laboratory (ASDL) and Executive Director of the Professional Master’s in Applied Systems Engineering (PMASE) program.

He is a Fellow of the American Institute of Aeronautics and Astronautics (AIAA) and a Fellow of the Royal Aeronautical Society. He is a member of the Executive Committee of the International Council of the Aeronautical Sciences and the AIAA Council of Directors, serving as the Director of the AIAA Aviation Technology, Integration, and Operations Group. He is a member of the International Council of Systems Engineering. He formerly served as a member of the US Air Force Scientific Advisory Board and co-chair of the Committee on Aviation Environmental Protection’s review board of independent experts.

For the past 25 years, Prof. Mavris and ASDL have specialized in the integration of multi-disciplinary physics-based modeling and simulation tools. ASDL’s signature methods streamline the process of integrating parametric simulation toolsets and enable huge runtime improvements that facilitate large scale design space exploration and optimization under uncertainty. Recent research focuses on combining these methods with advances in computing to enable large-scale virtual experimentation for complex systems design. Many current ASDL projects focus on Model-Based Systems Engineering