

Dr. Tom Giel

Tom Giel is currently a Subject Matter Expert with ERC Incorporated, a Jacobs Engineering ESSSA Contract teammate at NASA Marshall Space Flight Center (MSFC). He has twenty years of experience at MSFC with the analysis, design, development, and test of propulsion systems following 26 years of experience evaluating and designing rocket, aircraft and energy conversion systems.

Dr. Giel has worked at NASA MSFC since 1996. He has served as Sr. Engine Performance Analyst for Summa Technology with the MC-1 Fastrac LOX/RP-1 (Kerosene) engine designed by NASA for the X-34. For ERC he served as NASA power balance/transient analyst for the fuel rich LOX/LH2 RS83 and oxidizer rich LOX/RP-1 RS84 staged combustion engine programs, main engine Ares-1 Main Propulsion Systems Design and Analysis Team, the J-2X engine power balance/transient analyst, and the transient analyst for the RS-25 adaptation for the Space Launch System. He has served on numerous engineering review boards at NASA.

Prior to supporting NASA MSFC, Dr. Giel was Manager of the Advanced Measurements and Combustion Analysis Research Section and adjunct faculty at The University of Tennessee Space Institute following 6 years as a propulsion systems research engineer at the United States Air Force Arnold Engineering Development Center.

Dr. Giel received his Bachelor of Science degree in Aerospace Engineering from the University of Notre Dame in 1971, and his Masters of Science degree in Mechanical Engineering in 1973, and his PhD in Mechanical Engineering in 1980. He currently is an emeritus member of the AIAA Liquid Propulsion Technical Committee and is Vice Chairman of the ASME Propulsion Technical Committee.

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