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Welcome to the Tesla Memorial Society of New York Website

Dr. James F. Corum

Dr. James F. Corum: Ph.D. in Electrical Engineering from The Ohio State University (1974), MSEE from Ohio State (1967), and BSEE from Lowell Technological Institute (1965).

Dr. Corum taught and conducted research in electromagnetics, antennas, RF telecommunications, astrophysics (radio astronomy), mathematics (tensors and differential geometry) and relativistic electrodynamics for 17 years in academia before turning to private industry. He was an Electronic Engineer for the National Security Agency and a Researcher at the Ohio State Radio Observatory. He was a tenured Associate Professor on the faculty at West Virginia University (where he was the principal thesis advisor to a dozen Masters and Ph.D. candidates), a Professor at The Ohio Institute of Technology, and a Senior Scientist at the Battelle Institute in Columbus, Ohio. He served as Chief Scientist at Scientific Applications and Research Associates, Inc., in Huntington Beach, CA, and as the Chief Scientist for the Institute for Software Research, in Fairmont, WV. Currently, he is Chief Technical Officer for CPG Technologies. Collectively, he has received over a dozen awards for excellence in teaching and outstanding research from these institutions.

Dr. Corum is a Senior Member of the Institute of Electrical and Electronic Engineers (belonging to the Antennas and Propagation Society, the Professional Group on Microwave Theory and Techniques, the Broadcast Engineering Society, the Professional Group on Engineering Education, and the Plasma Science Society). He was Chairman of the Upper Monongahelia Subsection of the IEEE and Board Member of the Pittsburgh Section of the IEEE. He is a member of the American Geophysical Union, the American Association of Physics Teachers, the American Institute of Aeronautics and Astronautics, the American Society for Engineering Education, the American Association for the Advancement of Science, and the Research Society of North America (Sigma Xi). He is a Life Member of both the American Radio Relay League and the Quarter-Century Wireless Association. He is listed in Who's Who in Engineering, Who's Who in American Education, Leading Consultants in High Technology, Who's Who of American Inventors, Who's Who in Science and Engineering, American Men and Women of Science, and more than a dozen other professional and biographical dictionaries.

Dr. Corum has published over 100 notes and technical papers (in such prestigious magazines as the Journal of Mathematical Physics, the Proceedings of the IEEE, Soviet Physics Uspekhi, IEEE Spectrum, Microwave Systems News, Transactions of the American Institute of Aeronautics and Astronautics, International Journal of Theoretical Physics, etc.), several monographs, 5 patents (he invented the contra-wound toroidal helix antenna technology), and has contributed chapters to seven books. His primary publications concern relativistic rotation and nonsymmetric affine connections in nonholonomic space geometries. Additionally, he is internationally recognized as a science historian (serving as an advisor and board member for several scientific historical societies), and he has recently completed a compendium of translations of 100 papers on differentiable manifolds and the early asymmetric unified field theories of Einstein, Schouten, Cartan and Schrödinger.

Dr. Corum was invited as a guest of the Russian Academy of Sciences to the Institute of High Temperatures in Moscow, and his work on Ball Lightning and High Voltage Pulsed RF Sources has appeared in the Soviet literature. He has lectured at Berkeley, Imperial College (London), The Ohio State University, and Belgrade University. He has consulted for private industry and for DARPA, DoD, DIA, IDA, NRO, CIA, AFOSR, NEODTC, ARO, NASA, NIOSH, DOE and other governmental agencies.

He was cited as a *"National Treasure"* by The Office of the US Secretary of Defense for his work on the DARPA National Panel of Radar Experts on Ultra-WideBand Radar and Phenomenology. His engineering practice has taken him around the globe, from Moscow, Russia to Kwajelein Atoll. The recipient of many research and teaching awards, his electromagnetic research has been recognized by prestigious scientific organizations and professional societies around the world.

Kenneth L. Corum

Kenneth L. Corum: B.A. in Physics from Gordon College (1976) and graduate work in Electrical Engineering at the University of Massachusetts.

After graduating from Gordon, Mr. Corum taught Physics and General Science at Franklin High School, Franklin, MA. Subsequently, he entered private industry and has taught computer electronics, digital techniques, and software engineering, for Compugraphic Corporation, ATEX, Inc., and Sun Microsystems, in England, France, Germany, Switzerland, the Netherlands, Russia, and across the US. He was also employed by the Microwave Semiconductor Division of Varian Associates in Beverly, MA where he developed RF semiconductor devices. Mr. Corum was Director of the Commercial TV Satellite Division of Pinzone Communications, he was a software consultant with Hewlett-Packard, and he is now a Staff Consultant for Sun Microsystems, Burlington, MA.

He is the recipient of many industrial and teaching awards. His fundamental work on the electromagnetic generation of ball lightning has been published in Russian by the Soviet Academy of Sciences. He spoke by invitation in Novi Sad and in Belgrade as a guest of the Serbian Academy of Sciences and Arts in 1993. Mr. Corum has co-authored six books and published more than sixty technical papers, and he is listed in Outstanding Young Men of America and in American Men and Women of Science.