

iFPC & OS 2023

2ND INTERNATIONAL FUSION AND PLASMA CONFERENCE &
13TH INTERNATIONAL CONFERENCE ON OPEN MAGNETIC SYSTEMS FOR PLASMA CONFINEMENT
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Gary Eden
University of Illinois , USA

Biography

- J. Gary Eden is the Intel Alumni Endowed Chair Emeritus in Electrical and Computer Engineering at the University of Illinois (UIUC) and has served as a member of the UIUC faculty for 44 years. After receiving the Ph.D. degree in Electrical Engineering in 1976, he was a Research Physicist in the Optical Sciences Division of the U.S. Naval Research Laboratory (Washington, DC). From 1976 to 1979, he co-discovered several lasers, including the KrCl (222 nm) laser, proton beam-pumped lasers (Ar-N₂, XeF), and the first long-pulse (microsecond) excimer laser. Since joining the faculty of the University of Illinois in 1979, he and his students have pursued new lasers and high-power incoherent sources in the visible, ultraviolet (UV), and VUV spectral regions, atomic, molecular and ultrafast laser spectroscopy, and optical physics in atoms and small molecules. Sixty-five individuals have received the Ph.D. degree under his direction, and his current research focuses on VUV photochemistry in the solid state, photolithography with large-area, microplasma array-based lamps, and the development of ultra-high power KrF (248 nm) lasers for laser fusion energy (LFE). He was elected to the National Academy of Engineering in 2014, and is a co-Founder of Eden Park Illumination, Cygnus Photonics, and the Eden Park Foundation. He is also a Vice-President of the Xcimer Energy Corporation (Redwood City, CA).