John Verboncoeur

Associate Dean for Research and Graduate Studies at Michigan State University

East Lansing, MI, US

John Verboncoeur studies computational plasma physics, electromagnetics, beam physics and high field effects,

Biography

Computational plasma physics, electromagnetics, beam physics, high field effects including sheath formation, field emission, multipactor, and breakdown, laser-plasma interactions, plasma edge effects, transport, numerical methods, object-oriented techniques applied to scientific computing, visualization, plasma waves and boundary phenomena. Applications include microwave-beam devices, charged particle beam optics, fusion and other energy applications, accelerators, plasma thrusters, low pressure discharges for plasma processing, and high pressure discharges including plasma display panels and fluorescent lamps.

Industry Expertise

Education/Learning

Areas of Expertise

Propulsion Technologies

Affiliations

Senior Member, IEEE

Education

University of California - Berkeley
Ph.D. Nuclear Engineering

Accomplishments

Charles K. Birdsall Award, Nuclear and Plasma Sciences Society of the Institute of Electrical and Electronic Engineers
2022