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Daniel Schell is a senior biochemical engineer and supervisor of the Process Integration R&D section in the National Bioenergy Center of the National Renewable Energy Laboratory (NREL). He has a B.S. degree in engineering physics and M.S degrees in chemical engineering and engineering and technology management from the Colorado School of Mines. Mr. Schell has over 20 years of research experience exploring bio-based conversion of lignocellulosic biomass and has expertise in all the various unit operations at both the bench and pilot scale. He led efforts to design a 1 ton/day integrated pilot plant for enzymatically converting lignocellulosic biomass to ethanol in the mid 1990s. He also manages numerous projects for industrial clients investigating various aspects of lignocellulosic biomass conversion and currently leads a multi-disciplinary team of engineers, microbiologist, chemists, and technicians.