



AIAA Dayton-Cincinnati Section Announces a Special Lunch-and-Learn Event at Millenium Reign Energy!

DATE: Friday, 15 May 2026
TIME: 11:30 AM – 1:00PM **COST:** \$10 pizza/drinks
LOCATION: 530 N. Main St. Dayton Ohio 45405
SIGN-UP: Send e-mail to tchoeger@earthlink.net



The presentation will cover the history of Millennium Reign Energy (MRE), and the discovery and invention process up to this point. It will have a short 30 min power point presentation (with pizza for lunch) that will explain MRE products and talk about the markets for hydrogen power. We will tour the facilities and see actual working products that make hydrogen, purify it, compress and store then dispense into a hydrogen car.

Chris McWhinney: Founder and CEO of Millennium Reign Energy LLC

Chris Started Residential Hydrogen Power in 2003 in his garage and developed its parent company Millennium Reign Energy LLC in 2008. Chris is from Dayton Ohio and has 22 years of on-the-job experience in design and engineering of hydrogen production and electrolyzer stack design, H₂ storage, compression, purification and dispensing and the development, manufacturing and distribution of fully automated water electrolysis hydrogen generators and hydrogen dispensers. Experience in developing and placing into service many full scale working production models of fully automated water electrolysis products called AutoARK® that also double as a heat exchanger to heat homes and water. Guided MRE through the process, and then successfully obtained a Certificate of Attestation from CSA Group for IR-3-18 the Scalable Hydrogen Fueling Appliance and IR 4-14 Electrolyzer Models on 16 separate products. MRE now has hydrogen fueling infrastructure in place in 37 separate locations. MRE has contracted successfully with the US ARMY, Navy and Air Force and Royal Netherlands Navy. Successfully filed a provisional patent for a Residential Hydrogen Power Plant in 2003 to combine wind solar and hydrogen into a single harmonious system or micro grid. U.S. Patent issued in June 2013 on the AutoARK® Membrane. He holds a total of 10 issued Patents in the USA, European Union and Canada on various components of the electrolyzer system. Chris has been a voting member and on technical subcommittees on various standards for hydrogen safety in CSA, SAE, ISO, NFPA-2 and ASME. MRE has been very instrumental in providing data and information to these technical committees on alternative methods for fueling hydrogen vehicles with fixed orifice type systems.

