



American Institute of Aeronautics and Astronautics Dayton-Cincinnati Section

**Lunch 'N Learn
Friday,
15 August 2014
11:45 AM**

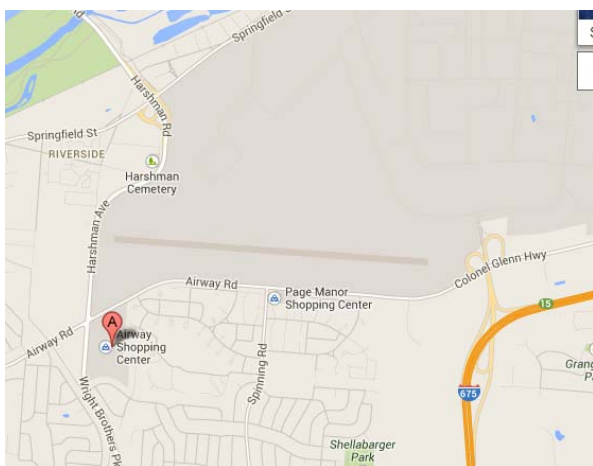
"Covetics"

***Guest Speaker:*
Mr. Harry Couch
Science Officer, Third
Millennium Materials**

Location

China Garden Buffet
112 Woodman Dr.
Dayton, OH 45431

Buffet will be available for
purchase.



Harry Couch, Science Officer of Third Millennium Materials (TMM). Harry has more than 50 years experience in the development of materials and process scale up for industry. 36 of those years were with General Motors where he led in the development of several notable new materials and products. Included are structural composites for automotive springs, where more than 12 million suspension springs have been used in automobile and trucks designs, air conditioning and brake hose, urethane foam for both seating and protective interior trim. Notable, Corvette has been suspended on composite springs since 1980 model year. After, GM Harry was one of the founders of the National Composite Center, serving as the engineering staff development as well as the leader of the reuse construction of the former Defense Electronic Supply Depot building 1. After 2000, he has been a consultant to several corporations who are going through the process of incubation to production scale. He is host for the Thursday Entrepreneurs Pub night at the Engineering Club of Dayton. Harry has a Bachelors degree in Chemistry from Manchester University in Indiana and is a Fellow of the SAE, a Boss Kettering Award from GM and an "Outstanding Engineering Award" by the Affiliate Society Council of Dayton.



TMM is a new venture start up corporation that is striving to exploit a new material named Covetic. The company is based in Waverly Ohio and has an advanced research and development facility on Front Street in Dayton Ohio. The corporation is only 10 years old and yet has been issued patents for covetic molecules made from Copper, Tin, Lead, Zinc, Gold and Silver. Applications for an additional nine patents have been filed. Some of the unique properties of these covetic compounds will be shared with the AIAA audience. This will be the first presentation of covetics to a local professional society. Third Millennium Materials will share data from third party organizations of both research and industrial centers and describe a proposed way forward for new opportunities in covetic application.