

Winters Blast, Rigaku Innovative Technologies, Presentation

On Jan 19, Mi-Light held its Winters Blast Quarterly Members meeting. Nick Grupido, VP-Sales & Marketing of Rigaku Innovative Technologies (RIT), gave an enlightening presentation about their multilayer coating capabilities for X-ray optics. RIT creates X-ray instruments and components for use in a diverse variety of applications and fields, presenting scientists and engineers with a unique level of depth and configurability.

RIT applies thin film coatings on optics and related products. Some examples of established markets RIT provides products for are X-Ray Diffraction, X-Ray Fluorescence, Small Angle X-Ray Scattering, X-Ray Generation, Stress Analysis, Cryogenics, Automation, Protein Crystallography, and Semi-Conductor analysis and production.

RIT's site in Auburn Hills, MI features state of the art coating facilities that allows them to develop, test, and manufacture cutting edge coatings to a multitude of various substrates. These facilities include seven carousel magnetrons, two inline magnetron systems, and dual ion beam deposition technology. These technologies allow RIT to produce coatings that hold to the most stringent of specifications. Their basic capabilities include the ability to manufacture uniform or graded coatings of up to 8 different materials simultaneously, low to high precision in thickness variation (ex. $\pm 5\%$ to $\pm 0.1\%$), and ultra-smooth or designed surface roughness.

With a full staff of scientists and R&D professionals, RIT has made breakthroughs in a number of different markets. Some of these include coatings for hydrogen fuel cells, solid lubricant coatings, wear resistant coatings, specialized thin-film coatings, x-ray mirrors from 10mm to 1.5m long, precise reflectors and diffractors, diffusers, and complex shapes.

RIT also has in house, installed, and developed metrology to ensure every product that leaves their facility undergoes the strictest of quality control procedures.

These facilities, personnel, and highly refined procedures allow RIT to take on any and all custom and challenging coating applications.

To view the presentation, [click here](#).



Nick Grupido, Vice President of Sales & Marketing at Rigaku Innovative Technologies, presenting to Mi-Light members