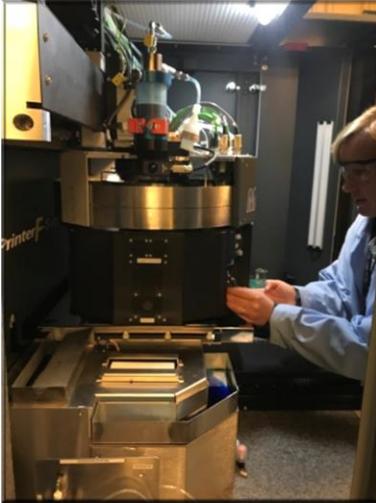


## Los Alamos National Laboratory and new R&D challenges with Cutting-edge CeraPrinter F-Serie by CERADROP-MGI



LANL's CeraPrinter F-Serie in the Chemical Microscopy Center

“ CERADROP, a MGI Group company, supplied Los Alamos National Laboratory with one of its State-of-the-art Platforms – CeraPrinter F-Serie. The Los Alamos National Laboratory, inspired and driven by Richard P. Feynman, fosters, deploys and delivers innovation. CERADROP has provided such a prestigious Laboratory with our cutting-edge equipment for advanced R&D goals to address the most challenging R&D problems. CERADROP expertise is focused on design and manufacturing of advanced systems for Printed Electronics and Smart 3D Printing. Providing our customers with such an all-in-one tool for various functional materials deposition we confirm our strong knowledge based on materials science. We released around 50 installations all over the world offering the users flexible digital printing solutions permitting to overcome any challenge in complex functional devices design and print. Besides our innovative approach in the hardware, CERADROP team provides high quality training and maintenance support based on strong care about the customers. ”

– stated **Tim H. Luong**, National Sales Manager at CERADROP



The CERADROP instrument is currently operating in the Chemical Microscopy Center, as part of the Physical Chemistry and Applied Spectroscopy (C-PCS) group lead by Group Leader, **Dr. Kirk Rector**. C-PCS addresses national and international problems by exploiting the measurement and diagnostic power of light, which is the fastest clock and the smallest ruler. We work with a diverse range of customers to execute research projects that span basic R&D and device creation through application and deployment of systems and methods for applied missions. Within this group are teams focusing on Nanotechnology and Advanced Spectroscopy, Remote Sensing Applications, Chemistry for Biomedical Applications, Thermal Kinetics and Dynamics of Materials, Terrestrial, Atmospheric, and Space Science.

According to **Dr. Rector**, “ We have an ongoing need for micro optics and material fabrication. We selected CERADROP’s F-Serie chemical deposition system that will provide this capability. The combination of inkjet and Aerosol Jet® on a single platform enables us to deposit a wide variety of materials. ”

One of the Principal Investigators in the group, **Dr. Kristy Nowak-Lovato** is the lead Scientist of the CERADROP instrument.

According to **Dr. Nowak-Lovato**, “ Now that we are using the system, we have become even more impressed with the high quality and precision of the hardware used in the system as well as the intuitiveness and integration of the software involved. We believe that we can use this system to produce custom materials for a wide variety of customers for years to come. In addition, CERADROP was a pleasure to work with for this purchase. ”



Dr. Kirk D. Rector Group Leader



Dr. Kristy L. Nowak-Lovato,  
CERADROP Instrument Lead Scientist  
Los Alamos National Laboratory



## ABOUT CERADROP, A MGI GROUP COMPANY

The MGI Group is composed of MGI Digital Technology, headquartered in Fresnes, France, CERADROP, located in Limoges, France and KÖRA-PACKMAT, located in Villingendorf, Germany. Founded in 1982, MGI Digital Technology designs, manufactures and markets a full and innovative range of award-winning digital presses and a complete line of versatile finishing solutions.

CERADROP designs and markets Materials Deposition Digital Printers exclusively for Printed Electronics Industry and Smart 3D Printing. Thanks to its modular-based scalable concept, CeraPrinter Series models present new opportunities for feasibility study and launch of new products into the Printed Electronics market. Combining several materials deposition technologies as well as the latest generation of curing modules, this equipment line permits to reach a wide range of application fields such as: membrane switch, antennas, sensors, passive components, interconnection, flexible solar cells (OPV), OLED and others...

As the subsidiary of MGI Group focused on Printed Electronics and Smart 3D Printing, CERADROP can call up more than 60 engineers specialized in inkjet engine, mechanics, automation, software, chemistry, and ink management to supply the best materials deposition digital printing solution from advanced R&D up to 24/7 high performance manufacturing including photonic curing and high throughput manufacturing capacity of several m<sup>2</sup>/min. Moreover, CERADROP is supported by the MGI Group network in 70 countries with 50 representatives. Achieving more than 80% of its turnover from export and providing a unique process support to its customers, CERADROP makes easier and more efficient use of Digital Printing technology for Printed Electronics and Smart 3D Printing worldwide.



## ABOUT LOS ALAMOS NATIONAL LABORATORY

Los Alamos National Laboratory, a multidisciplinary research institution engaged in strategic science on behalf of national security, is operated by Los Alamos National Security, LLC, a team composed of Bechtel National, the University of California, BWXT Government Group, and URS, an AECOM company, for the Department of Energy's National Nuclear Security Administration.

Los Alamos enhances national security by ensuring the safety and reliability of the U.S. nuclear stockpile, developing technologies to reduce threats from weapons of mass destruction, and solving problems related to energy, environment, infrastructure, health, and global security concerns.

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