

December 2025 Analytical Lab Services News

## Image of the Month: Titanium on the CX-300

This month's featured image showcases the intricate surface structure of titanium—captured using the Coxem CX-300 SEM. It's a perfect example of how advanced imaging can reveal extraordinary detail in everyday materials.

[Explore the CX-300 SEM](#)

### New Blog: Reviving Legacy AFMs — Unlocking New Capabilities

Got an older Atomic Force Microscope (AFM) sitting idle in your lab? You might not need to replace it. Our latest blog explores how Concept Scientific Instruments' Galaxy Dual Controller can breathe new life into legacy AFMs—adding cutting-edge modes, higher resolution, and more flexible measurement options.



[Read the Full Blog](#)

### Coxem Demo Equipment Sell-Off — Limited Availability!

Looking to add a Coxem SEM to your

lab? Our Demo Equipment Year-End Sell-Off includes a limited selection of certified, fully operational demo systems —available for delivery before the end of 2025. Don't miss your chance to save and upgrade before year-end tax deadlines.

[Browse Demo Deals](#)

## Improving Titanium Alloys Using Advanced Techniques

Researchers found a way to enhance the properties of TC4 titanium alloy, which is used in various applications, by employing a method called Friction Stir Processing (FSP). This process follows an initial step where the titanium is built up using a technique called Laser Metal Deposition (LMD). Much of the research was done using CIQTEK SEM's like the SEM3200 and SEM5000X we have in our Fremont lab.



[Read the Article](#)

## Workshop Update: “From Sample to Structure” Rescheduled to February 2026



Our EBSD Workshop, originally planned for November, has been rescheduled to February 2026. The program will still deliver the same hands-on, workflow-based experience covering EBSD fundamentals, sample prep, and data analysis with Bruker's eWARP EBSD system.

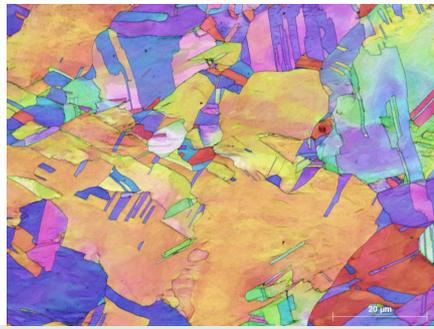
[View Updated Workshop Info](#)

## EM MicroTarget Preparation Webinar

Preparing micro targets in microelectronics and other advanced materials systems presents a major challenge because these targets are rarely visible. As a result, pinpointing and aligning them precisely can be

difficult, making preparation to the exact target a time-consuming and error-prone process where the target may easily be missed.

[Register for Webinar](#)



## Our Promise

We provide high-quality sample preparation and analysis services with faster turnaround times and competitive pricing—delivering unmatched value in the marketplace. Our commitment to precision, speed, and affordability ensures you get the results you need, when you need them, without compromising on quality

### Upcoming Events



Join us as we're hitting the road this season! Catch up with us and explore our latest tools at these upcoming events:

- **DEC 4** - SMTA Silicon Valley Expo & Tech Forum 2025
- **DEC 4** - EM MicroTarget Preparation Webinar

[See Full Calendar](#)

### Contact Us

Have an application you are trying to address? Do you need maintenance or support? **Contact us. We are happy to help.**

**(408) 436-6336**