

Plating NEWS

2025

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Electrochemical Intelligence

The year 2025 saw further research into the more sophisticated barriers yet conceived and devised to more uniformly redirect plating current to the cathode. This is accomplished without auxiliary electrodes, either anode or cathode.

It then makes some sense that because there are so many three dimensionally shaped cathodes, three dimensional, non-conductive shields, properly shaped and placed, could provide the ultimate in plating thickness uniformity over an entire cathode, be it large or small.

- Example: imagine a three-dimensional cathode, requiring a 1 mil. minimum deposit thickness and having that 1 mil. measured most anywhere on the cathode. There's some small-scale work going on currently that points to this as viable and worth pursuing. Initial testing has been promising.

Electrochemical Intelligence makes so many newer ideas for plating thickness control possible. Take for instance 3D Printing.....it has come into the picture as a tool to make three-dimensional shields. The first one showed promise in its function. Still to be determined is the composition of the shield and questions such as:

- "Will it be capable of withstanding repeated exposure to plating line chemical processes.?"
- "What are long term costs of non-conductive shields, their materials and fabrication.?"

By the year 2026 we may have some access to more sophisticated materials research and a savvy young scientist looking to discover and explore the connections that can further advance electrodeposition efficiency. Stay tuned for that....

We're adding another telephone communication resource: (714) 719-7635. It's our in-the-field number.

THANKS FOR READING

This edition of Plating NEWS has been written and edited by Roger Mouton and guest staff at Advanced Plating Technologies. We welcome submissions for publication in future issues of Plating NEWS.

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