

Avantor, Inc.

Building One, Suite 200
100 Matsonford Road
Radnor, PA 19087
t 610-573-2600

News Release

FOR IMMEDIATE USE BEFORE SEPTEMBER 3

Avantor® Expert to Discuss Semiconductor Wafer Etching Technology at Symposium on Ultra Clean Processing of Semiconductor Surfaces (UCPSS)

Radnor, PA (USA) – July 30, 2018 – Sherman Hsu, Ph.D., Global R&D Director, Electronic Materials at [Avantor®](#), will deliver a poster presentation titled “Versatile Aqueous Chemistry for Selective Ru or WN_x Etch and Implant BARC Removal in 5/3 nm Applications” at the bi-annual UCPSS 2018 symposium on ultra clean processing of semiconductor surfaces, September 2-5 in Leuven, Belgium. Hsu’s presentation is Monday, September 3, from 5:30-6:30 P.M. in the Promotion Hall.

Ruthenium (Ru) is considered for use as a barrier-less metallization interconnect offering low effective resistivity in advanced sub-5nm semiconductor applications. Avantor has developed its RSE-1 product, a fully aqueous chemistry for effective Ru etching with broad substrate and metallization compatibilities.

Hsu’s presentation will demonstrate the residue removal capability achieved using RSE-1 as a copper/titanium nitride compatible, sulfuric acid-hydrogen peroxide alternative in multilayer photoresist/bottom anti-reflective coating (BARC) removal.

“Our researchers have developed a chemistry to solve technical challenges of ruthenium select etch with broad substrate compatibility and effective multilayer removal or rework,” said Hsu. “This alkaline oxidative chemistry is suitable for versatile etch and clean applications, including highly selective etch of silicon, silicon-germanium, aluminum, tungsten, tungsten nitride and other tungsten alloys.”

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Media Contact

Allison Hosak

Avantor

Office: (610) 573-2661

Allison.Hosak@AvantorInc.com

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