



[TuE1] Innovative Abrasives and Carbon Layer CMP

Session Date	November 11 (Tue.), 2025
Session Time	13:00-14:40
Session Room	Room E (Sicily Room, 1F)
Session Chair	Dr. Yongsik Moon (EHWA Diamond, Korea)

[TuE1-1] [Invited]

13:00-13:30

Molybdenum CMP: Aspects of Thermodynamics and Kinetics

Ungyu Paik, Taeseup Song, Ganggyu Lee, Sumin Hong, and Giha Lee (Hanyang Univ., Korea)

[TuE1-2]

13:30-13:50

Mitigating Galvanic Corrosion in Cu/Ru Interfaces through Selective Surface Interactions for Ru Barrier Metal CMP

Ganggyu Lee, Sumin Hong, Giha Lee, Byungjoon Kim, Taeseup Song, and Ungyu Paik (Hanyang Univ., Korea)

[TuE1-3] [Invited]

13:50-14:20

Surface Modification Mechanism of Carbon-Metal-Carbon Structures for Enhanced Mechanical Polishing Performance in Hard Amorphous Carbon Layer Chemical-Mechanical-Planarization

Jea-Gun Park, Pil-Su Kim, Min-Uk Jeon, Man-Hyup Han, Hyun-Sung Koh, and Kyoo-Chul Cho (Hanyang Univ., Korea)

[TuE1-4]

14:20-14:40

Zirconia as a Novel Abrasive for CMP of Amorphous Carbon Layer (ACL)

Ikjoon Kim, Heesuk Kim, and Jin-Hyung Park (ENF Technology Co., Ltd., Korea)