



# ENTROPY:

## The “Secret Sauce” in Materials Engineering?

**Friday, April 10, 2026**

### TECHNICAL PROGRAM

Richard Weeks Hall of Engineering Lecture Hall 102

1:30 p.m.–1:35 p.m.

#### Introductory Comments

**Ben Fasano**

CANJ President

IBM/GlobalFoundries (retired)

1:35 p.m.–2:15 p.m.

#### High-entropy Fracture: Towards High-Toughness Ceramics

**Ryan Sills**

Professor, Materials Science and Engineering

Rutgers School of Engineering

2:15 p.m.–2:55 p.m.

#### Using Entropy to Stabilize Unique (and useful) Grain Boundary States

**Tim Rupert**

Professor, Materials Science and Engineering

Johns Hopkins University

2:55 p.m.–3:15 p.m.

#### Scholarship Awards

**Koray Akdoğan**

Undergraduate Director, Department of Materials Science and Engineering

Rutgers School of Engineering

3:15 p.m.–3:35 p.m.

#### Break

3:35 p.m.–4:20 p.m.

#### The Role of Entropy and Complexity in Materials Science: Microstructure and Properties

**Jeffrey Rickman**

Professor, Materials Science and Engineering

Lehigh University

4:20 p.m.–4:30 p.m.

#### Welcome

**Alberto Cuitiño**

Dean

Rutgers School of Engineering

4:30 p.m.–5:30 p.m.

#### MGM McLaren Distinguished Lecture

#### Novel Processing of Entropy Stabilized and Compositionally Complex Materials

**Helen Chan**

New Jersey Zinc Professor of Materials Science and Engineering

Lehigh University

### RECEPTION AND POSTER SESSION

Busch Faculty Dining Hall

6:00 p.m.–7:30 p.m.

#### Reception and Poster Competition

7:30 p.m.–8:00 p.m.

#### Awards: MGM Distinguished Speaker, Poster Winners