

## **Technology and Racial Justice and Equity**

Session co-chairs: Brooke Coley, Arizona State University, and Khalid Kadir, University of California, Berkeley

In this session, we amplify the work of scholars seeking to have transformative impact in the realm of racial justice. Specifically, our speakers highlight various aspects of racial equity and environmental justice to comprehensively consider what are often treated as disparate topics in engineering. Connecting across subthemes of racial equity, speakers will address culturally relevant pedagogy, engineering identity, justice-oriented practice, and the hidden curriculum of engineering through critical perspectives that challenge and/or inform our understanding of the current state of justice, equity, diversity, and inclusion in engineering education and practice. Regan Patterson (UCLA) will start the session by making the connection to how such injustices are perpetuated in engineering practice with regard to the environment. Next, James Holly, Jr. (University of Michigan) will deliver a critical message focused on unpacking whiteness and disrupting the hegemonic ways of doing that have dominated engineering education since its inception through a focus on culturally relevant pedagogy and making whiteness visible. To consider the ways that values, assumptions, and beliefs about schooling manifest in practice, Idalis Villanueva (University of Florida) will present on the hidden curriculum in engineering. While these speakers will focus on the implications of racial equity and justice on engineering and engineering education, we will also extend beyond pedagogical approaches to consider supports and resources demonstrated to cultivate resilient engineering identities in the presentation by Monique Ross (Ohio State University). Her expertise hones in on the experiences of women of color in computer science and the workforce, specifically. Comprehensively, this session will raise our consciousness as professional engineers to consider the ways we contribute to these injustices in our teaching, research, and practice.

### Speaker bios

Regan Patterson, Assistant Professor, Dept. of Civil and Environmental Engineering, University of California, Los Angeles

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James Holly, Jr., Assistant Professor, Dept. of Mechanical Engineering, University of Michigan

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Idalis Villanueva Alarcon, Associate Professor, Dept. of Engineering Education, University of Florida

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Monique Ross, Associate Professor, Engineering Education, Ohio State University

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