



Chemical & Physical Sciences  
**UNIVERSITY OF TORONTO**  
MISSISSAUGA

## COLLOQUIUM SEMINAR SERIES

### THE RISE AND FALL OF ROOM-TEMPERATURE SUPERCONDUCTORS



We experienced an extraordinary summer marked by not one, but two room-temperature superconductors dominating our news feeds. Notably, the claim of room-temperature superconductivity in LK-99 garnered unprecedented attention from the mainstream media. Equally impressive was the rapid response from the scientific community, ultimately debunking this sensational claim. In this Colloquium, I will begin by providing a foundational understanding of superconductivity, answering some basic questions: What is superconductivity and why is it a big deal? Subsequently, I will delve into the extraordinary events that transpired during the two weeks following the announcement of LK-99. To conclude, I will provide an update on our ongoing efforts to discover new superconducting materials and explore the prospects of realizing room-temperature superconductivity.

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*featuring*

**Young-June Kim, Professor of Physics**  
**University of Toronto**

Wednesday, September 20, 2023 | 3:30pm | CCT2150