



Jointly organized by:  
Faculty of Engineering  
Department of Civil Engineering  
The University of Hong Kong

Distinguished Public Lecture (Online)

# Multiscale X-ray Tomography of Construction Materials



Date: May 11, 2022 (Wed)



Time: 10:00 a.m. - 11:00 a.m. (HKT)



Zoom: <https://hku.zoom.us/j/95599458996> (955 9945 8996)

## Prof. Paulo J.M. Monteiro

Roy W. Carlson Distinguished Professor in  
Department of Civil and Environmental Engineering  
University of California at Berkeley  
Member of The U.S. National Academy of Engineering



### About the Speaker

**Prof. Paulo Monteiro** is the Roy W. Carlson Distinguished Professor in Civil and Environmental Engineering at the U.C. Berkeley. He has published over 300 archival papers, and he co-authored a comprehensive textbook on concrete that is widely used and has been translated into Japanese, Chinese, Greek, Spanish, Portuguese, and Persian. He has been elected to the U.S. National Academy of Engineering and has received the following awards for this research: *Stephen Brunauer Award (twice)*, *Premio Ari Torres*, *Brunauer Award*, and *Wason Medal for Materials Research*.

### Abstract

Our research group has been using synchrotron radiation to characterize and optimize the nano and microstructure of advanced construction materials. I will discuss how three-dimensional tomographic images are providing fresh new insights into the complex nature of composite materials and how this information can be used in the design of improved materials. The lecture will also cover the exciting goal of producing x-ray images with a spatial resolution of 1 nm.



Registration is required only for participants who require attendance certificate:

[https://hkuems1.hku.hk/hkuems/ec\\_hdetail.aspx?guest=Y&ueid=81230](https://hkuems1.hku.hk/hkuems/ec_hdetail.aspx?guest=Y&ueid=81230)

An electronic certificate of attendance will be issued to registered participants after the public lecture.



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