



American Industrial Hygiene Association
Northern California Section

Meeting Receipt

October 25, 2022

AIHA-NCS Dinner Meeting

Technical content/speaker bios:

Malek Alaouie, CIH, CIE

Doctoral Researcher, Department of Aerospace and Mechanical Engineering – Brunel University London,
Department of Mechanical Engineering – UC Berkeley

“Developing Sustainable Ventilation for Indoor Pollution Mitigation in Refugee Settlements”

Over 1 million Syrian refugees have fled war since 2010 to seek asylum in Lebanon. The population has been placed in substandard conditions affected by chronic dampness and inadequate ventilation, favoring potential microbial growth which could lead to adverse health effects, particularly on vulnerable subgroups. To investigate whether types and conditions of Syrian refugee shelters influence indoor mold concentrations, a cross-sectional indoor environmental study was performed in 4 provinces of Lebanon. These findings suggest that shelter category, condition and occupancy significantly influence indoor mould concentrations, increasing respiratory health risk for occupants, particularly vulnerable individuals.

Other studies conducted in various refugee settings have concluded that air quality is a major hazard impacting refugee health. Hence, the second phase of this project aimed at designing and developing a low-cost solar-powered window air cleaner (SWAC) concept to be deployed in informal tented settlement to mitigate for inadequate ventilation leading to mold abundance and other potential indoor pollutants.

Amount Paid

Member	\$20.00	_____
Student	\$10.00	_____
Non-member	\$30.00	_____

Received By: _____

David Brinkerhoff, CIH – President-elect, AIHA-NCS

Attendee Name: _____

This meeting contained 1 hour of technical content. ABIH previously awarded Certification Maintenance (CM) points for similar events but has discontinued their review of CM point requests. Diplomates should calculate their own CM points according to ABIH guidance.