# LC³ Information Day in Cape Town

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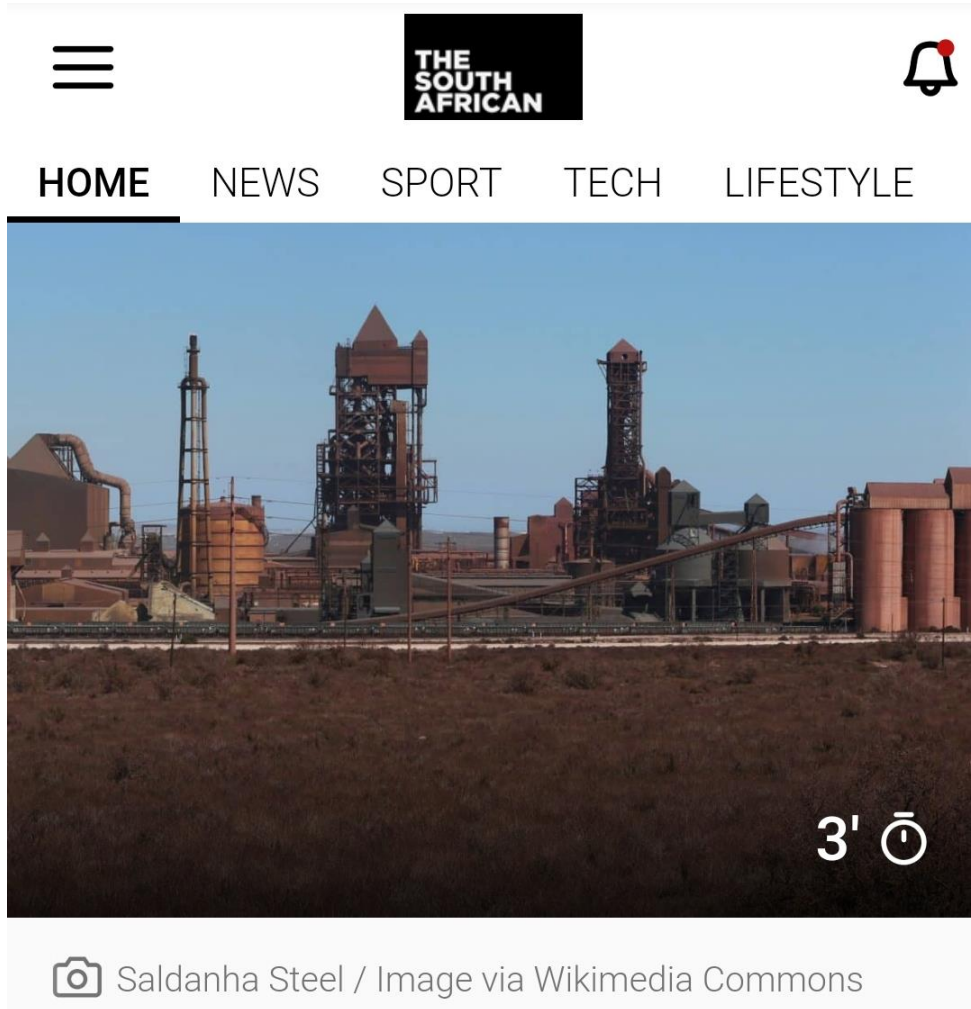Thank you also to all our overseas delegates, and our local ones!

# LC$^3$-Information Day in Cape Town

## Purpose

- To introduce LC$^3$ cement and explore its possibilities in the cementitious market – internationally and locally
- To understand the specific properties of LC$^3$ cement in terms of concrete construction
- To highlight regional experiences with LC$^3$ cement
- To open the floor for discussion on the material in the SA context

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# News on 12th November 2019



Saldanha Steel / Image via Wikimedia Commons

Saldanha Steel to shut down: Job losses and economic consequences

ArcelorMittal is the largest employer in the West Coast region.

https://www.thesouthafrican.com/news/saldanha-steel-shut-down-how-many-jobs-lost-2020/

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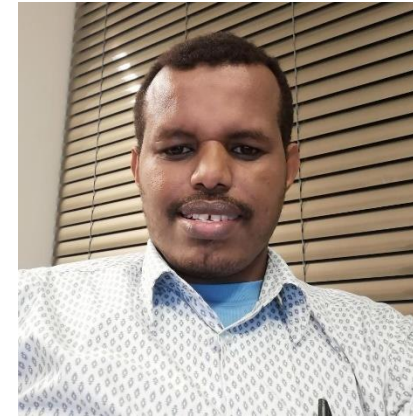Creating Concrete Possibilities

News on 1

# Recent extended cement projects at UCT

**Project 1 (2016-18)**: Properties of Western Cape Concretes with Metakaolin

**Project 2 (2018 - )**: Development of low-clinker concrete: Partial replacement of cement with calcined clay and limestone, using selected African raw materials

Alice Bakera MSc (Eng)

Emmanuel Leo PhD stud.

Bakera, A. & Alexander, M.G. 2019, 'Use of metakaolin as a supplementary cementitous material in concrete', *RILEM Technical Letters*, no. 4, pp. 89–102.

Bakera, A.T. & Alexander, M.G. 2018, 'Properties of Western Cape Concretes with Metakaolin', *MATEC Web of Conferences*, vol. 199, pp. 1–14.

Leo, E.S. & Alexander, M.G. 2019, 'Potential of selected South African kaolinite clays for clinker replacement in concrete', *3rd International Conference on Calcined Clays for Sustainable Concrete*, vol. I, pp. 9–17.

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# Thank you