



H2020 Marie Sklodowska-Curie RISE Project: TRAC – Tailor-made Recycled Aggregate Concretes

Members:

1. UoP (University of Plymouth, UK) – Coordinator, Leader of WP1, 5 & 6
2. CHALMERS (Chalmers University of Technology, Sweden) – Leader of WP2, 3, & 4
3. PNRU (Phranakhon Rajabhat University, Thailand) – Co-leader of WP6
4. TDTU (Ton Duc Thang University, Vietnam) – Co-leader of WP3
5. SZU (Shenzhen University, China) – Co-leader of WP2



TRAC Newsletter – June 2019

Management

1. The project mid-term meeting venue is confirmed to be Sherfield H008B, Imperial College London, London, UK. A template of presentation slides for work packages has been sent to all partner leaders.
2. Deliverable 2.1 (Technical report on mechanical properties of recycled aggregate concretes - part 1) and Deliverable 3.1 (Technical report on mixing process of recycled aggregate concretes with SCMs -part 1) have been submitted on time (Month 11).
3. Deliverable 1.1 (Progress report 1) is to be submitted by Month 12.
4. Two PhD students (Mr The-Danh NGUYEN and Mr Hoai-Bao LE) have been recruited at TDTU to work on the TRAC project. Both students started from April 2019.
5. Financial agreement between UoP and TDTU has been signed by both partners for the budget transfer for Year 2 (July 2019 – June 2020).

Exchange

1. Mr Aissa Bouaissi (UoP) visited TDTU from 19th Mar 2019 to 19th Jun 2019.
2. Dr Boksun Kim (UoP) visited SZU from 7th Apr 2019 to 26th Apr 2019.
3. Dr Minh-Tung Tran (TDTU) is visiting Chalmers from 1st June 2019 to 30th June 2019.
4. Dr Quoc-Bao Bui (TDTU) is visiting Chalmers from 1st June 2019 to 9th Sep 2019.
5. Dr Natt Makul (PNRU) is visiting Chalmers from 8th June 2019 to 30th June 2019.



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N°777823.



6. Dr Prakasit Sokrai (PNRU) visited Chalmers from 8th June 2019 to 19th June 2019.
7. Dr Kannaphat Nithitwaraph (PNRU) visited Chalmers from 8th June 2019 to 19th June 2019.
8. Prof Luping Tang (Chalmers) visited SZU from 11th June 2019 to 21st June 2019.

Research Activities

1. Mr Aissa Bouaissi carried out experiments using geopolymer based recycled aggregate concretes with soil as an additional material. He was also invited to present at the IConGDM2019 conference held in Indonesia on 29-30 April 2019.
2. Prof Luping Tang did a seminar “Alkali-activated materials – research progress” in SZU on 19th June 2019.
3. Researchers at TDTU investigated mechanical properties of recycled aggregate concretes with different types of local aggregates. Aissa was invited to join the student supervision during his visit at TDTU.
4. Researchers from TDTU and PNRU discussed advanced research methods of durability of concretes during their visit at Chalmers. The pioneering research methods developed at Chalmers will be transferred to TDTU and PNRU in future.
5. Researchers from PNRU work on the review of up-to-date research methods for the improvement of interfacial transition zones in recycled concrete aggregates and the thermodynamic modelling of chloride movement in recycled aggregate concretes.

Publications

1. Dawang Li, Long-yuan Li, Xianfeng Wang (2019). Chloride diffusion model for concrete in marine environment with considering binding effect, Marine Structures, 66, 44-51.
2. L. Tang, J. Liu and E. Zhang, “Monitoring and Interpreting the Early Properties of Alkali-Activated Materials by Electrical Conductivity Measurement”, Proceedings of the International Conference of Sustainable Production and Use of Cement and Concrete, RILEM Bookseries 22, June 2019.





Attachment:



Fig. 1 Discussion between Prof Luping Tang and staff/students at SZU after the seminar



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