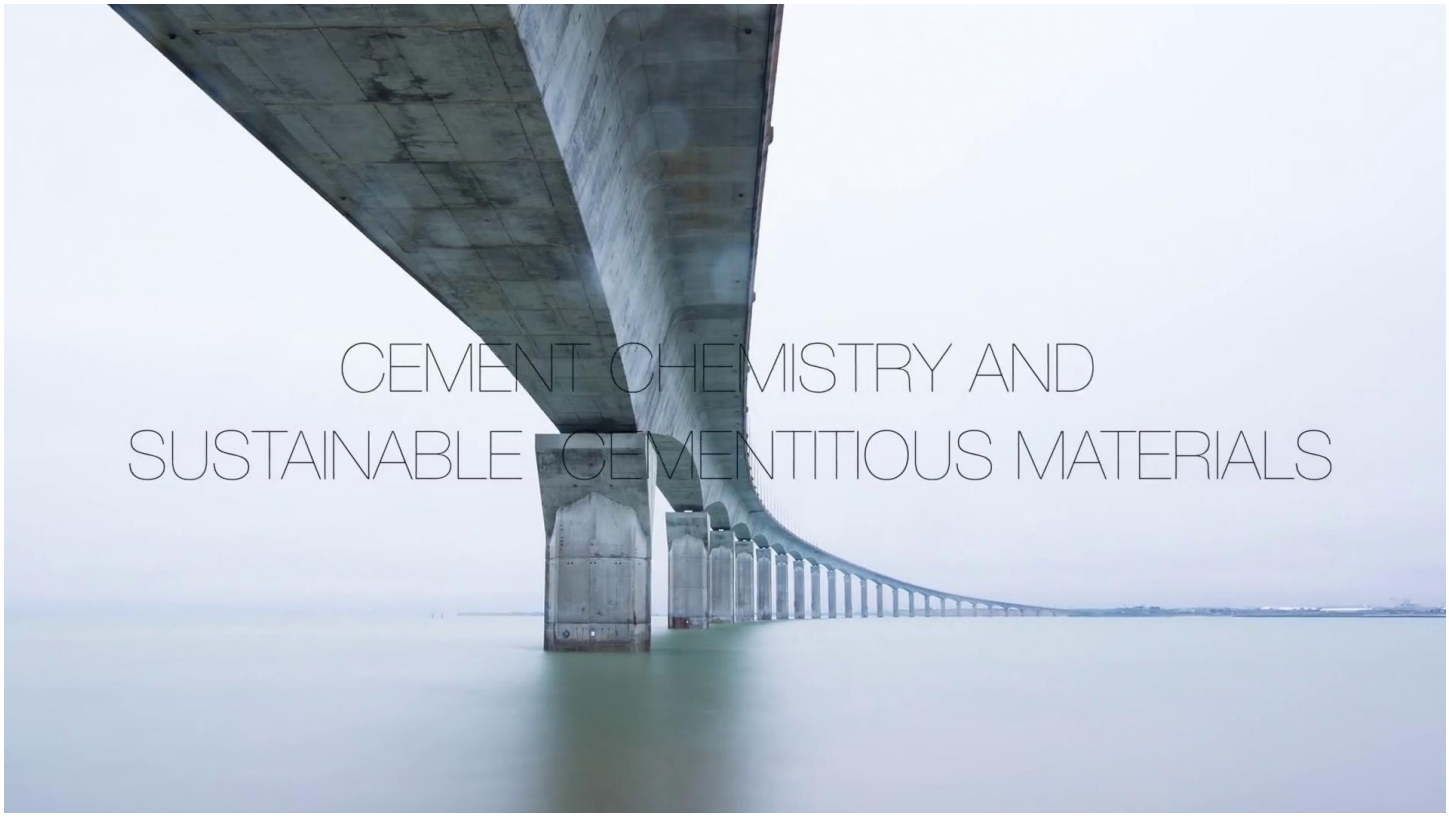
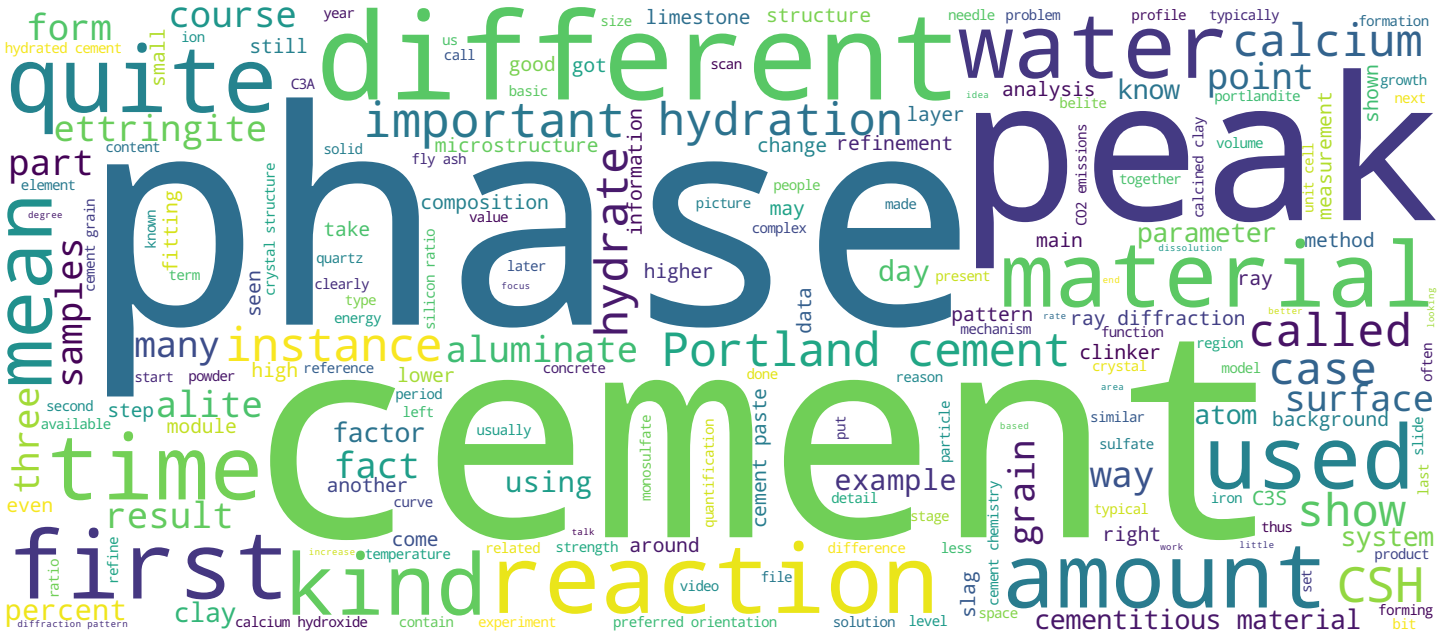


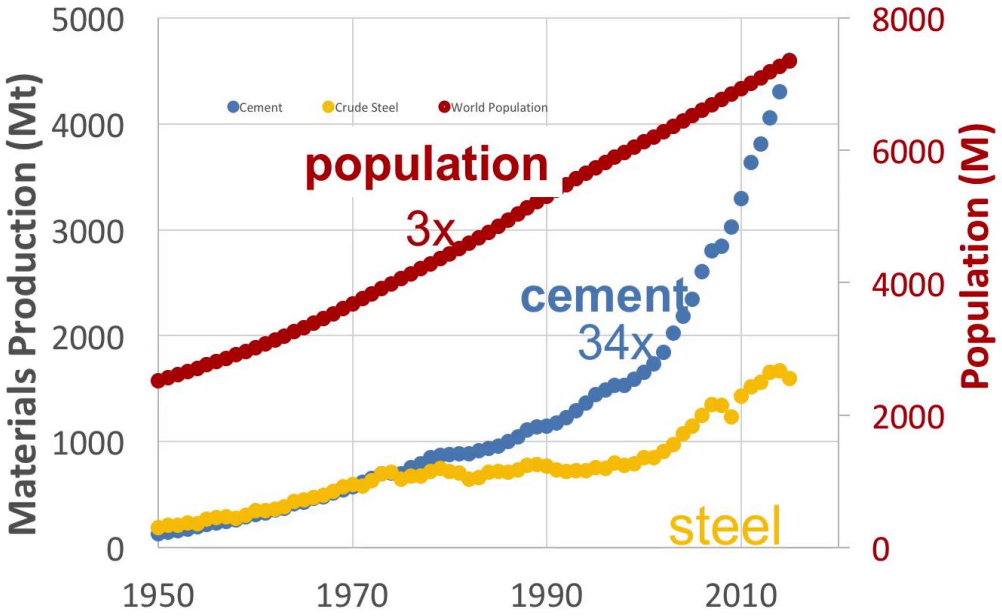


EPFL

Search MOOC

Video

Growth in cement use in last 70 years



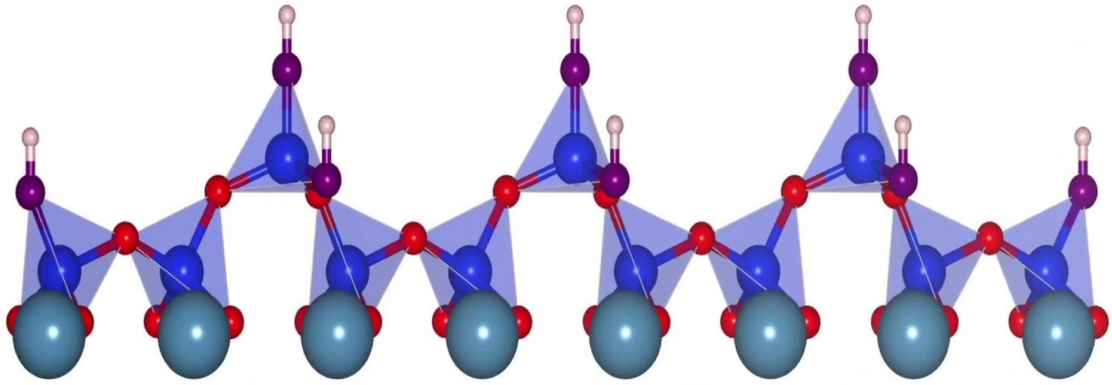
In 2012, four billion tons of cement were produced worldwide. This makes concrete the product most consumed by humans. Compared to many other materials, producing cement is very ecological. But with several billions of tons produced each year, the cement industry becomes a major contributor to global CO2 emissions. To reduce its impact, we can substitute a part of cement by supplementary cementitious materials. Our new course, cement chemistry and sustainable construction materials, will introduce you using lectures and tutorials, the basics of cement hydration and how to develop and characterize low-carbon cement.

Notes

Summary

0m 00s

Hydration

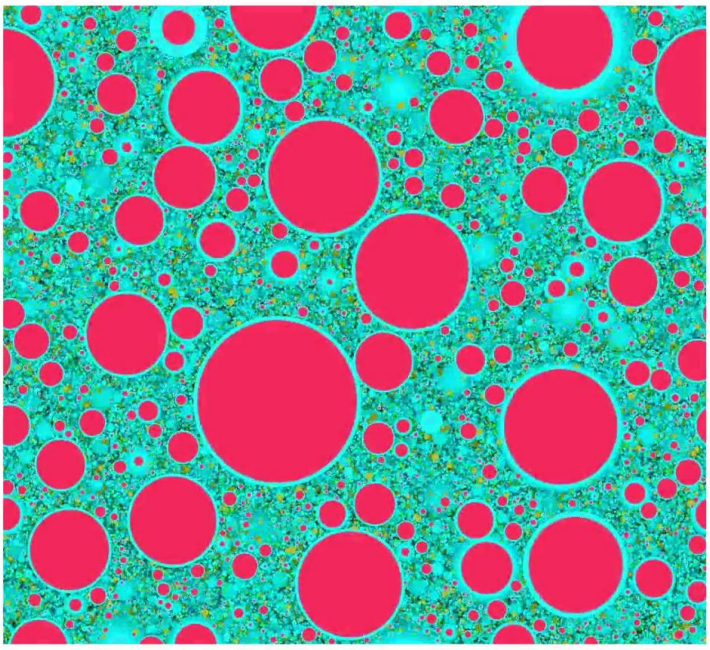


This course will be divided into two major phases.

Notes

Summary

0m 37s

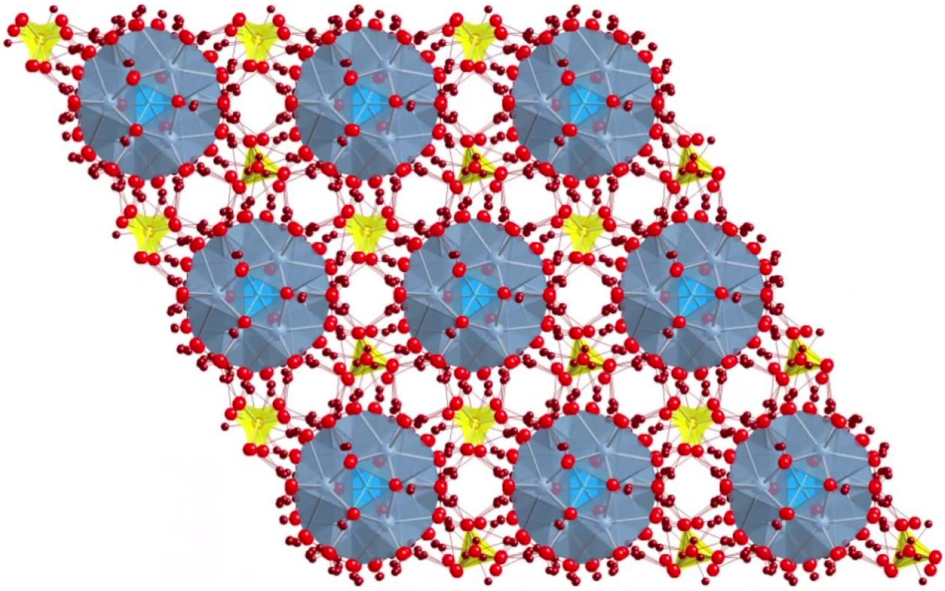


The cement chemistry during the first four weeks.

Notes

Summary

0m 39s

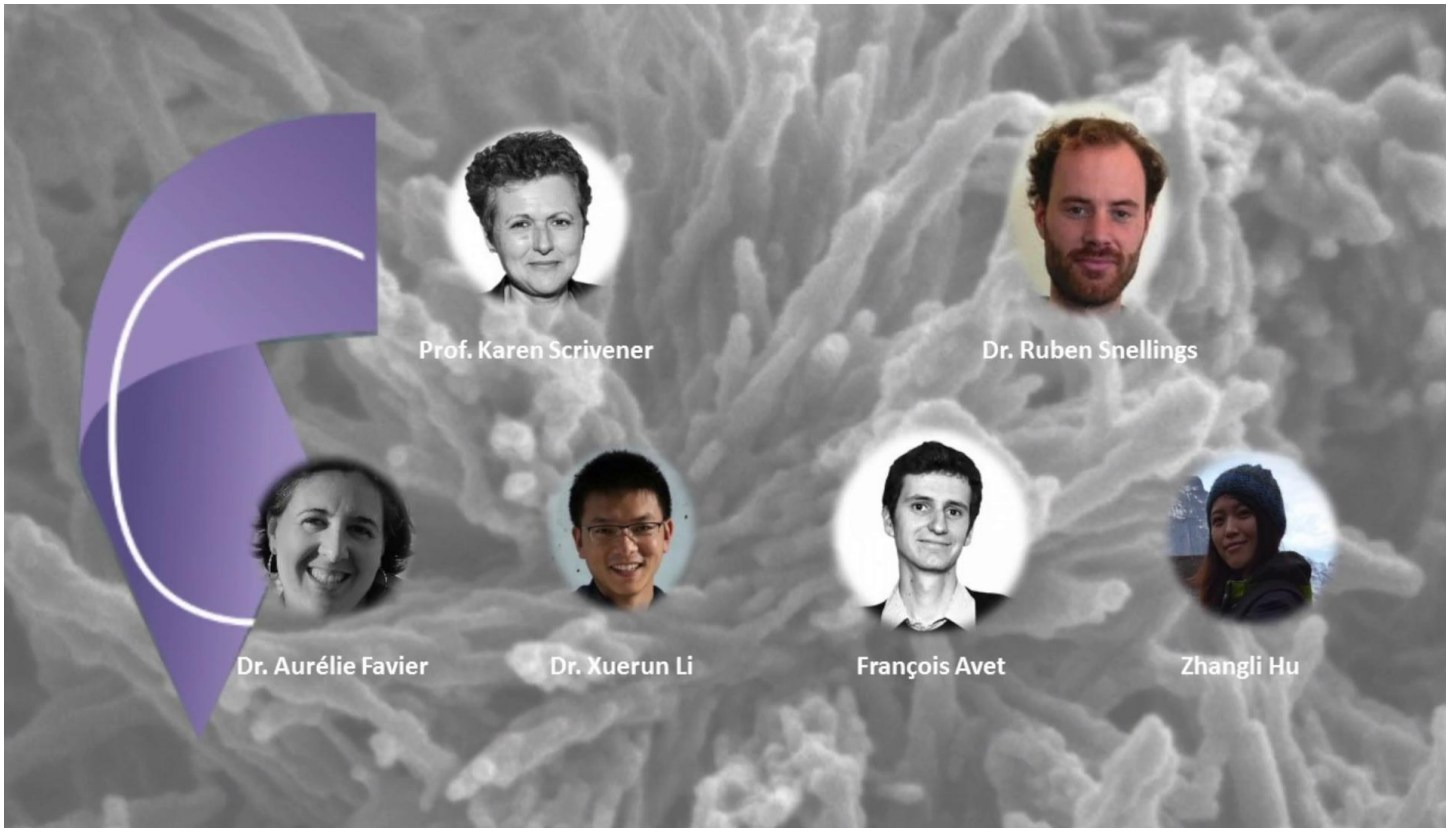


Then the last two weeks will focus on the use of x-ray diffraction for the analysis of low carbon cements.

Notes

Summary

0m 42s



Professor Scrivener, her team and Dr Snellings, researcher at VITO, hope to find you all there.

Notes

Summary

0m 49s