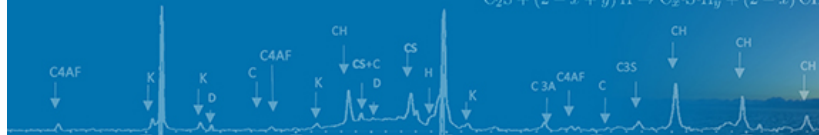
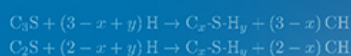


# Cement Sheath Integrity in Oil & Gas Wells

Current Challenges and Future Solutions

Virtual event, 24-26 March 2021



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An online symposium  
organized by

**École des Ponts ParisTech and LafargeHolcim**

under the auspices of the Chair

“Materials Science for Sustainable Construction”

supported by LafargeHolcim

**March 24-26, 2021, from 3pm to 6.30pm (France time)**

## Scope

The cement sheath in oil & gas wells, used since 1903, plays a significant role in ensuring zonal isolation, protecting the tubular against corrosion, and providing mechanical support. With the progressive rarefaction of conventional resources, the petroleum industry needs to drill deeper and faces more demanding conditions to ensure the proper execution of cementing operations and long-term cement sheath integrity. Simultaneously, raising public awareness about climate change encourages the cement industry to produce greener cements and improve the produced materials' durability. Bearing these new challenges in mind, we gather specialists from the university and the industry. With their various points of view ranging from fundamental to more practical questions, we hope this three-day workshop will foster interesting discussions on current challenges and future solutions of cement sheath integrity in oil & gas wells.

## Scientific program

The following speakers confirmed their presence:

- **Carlos Fernandez** (Pacific Northwest National Laboratory, USA):  
*'Self-repairing polymer-modified cements for high-temperature wellbore applications'*
- **Siavash Ghabezloo** (Laboratoire Navier, Ecole des Ponts ParisTech, France):  
*'Thermo-poro-mechanical behavior of an oil well cement paste'*
- **Simon James** (CS8 Consulting, France):  
*'What is expected from the cement in cementing for the life of the well?'*
- **Maria Juenger** (University of Texas at Austin, TX, USA):  
*'Alkali activated fly ash for wellbore construction and abandonment applications'*
- **Konrad Krakowiak** (University of Houston, TX, USA):  
*'Lightweight cement systems for thermal insulation of wells operating in HTHP conditions'*
- **Barbara Kutchko** (National Energy Technology Laboratory, US Department of Energy, USA)  
*'The new science behind foamed cement'*
- **Matteo Loizzo** (Consultant, Germany):  
*'Non-destructive testing of cement using logs: quantifying integrity defects, geometry and mechanical properties of the cement sheath'*
- **Agathe Robisson** (Technische Universität Wien, Austria):  
*'Suspensions sedimenting in a horizontal annulus: A model for oilfield cements in horizontal wells'*
- **Luca Sorelli** (Université Laval, QC, Canada):  
*'A multi-scale approach to characterize and analyze the effect of temperature and pressure on the life well integrity of oil well cements'*
- **Malin Torsæter** (SINTEF, Norway):  
*'Ensuring long-term cement integrity after well P&A'*
- **Manh-Huyen Vu** (CURISTEC, France):  
*'Cement mechanical integrity design challenges'*
- **Louis Zinsmeister** (TOTAL, France):  
*'Continuous mechanical characterization of cement during and post hardening'*

15h00-15h10	Philippe BENARD / Matthieu VANDAMME / Siavash GHABEZLOO (LafargeHolcim / Ecole des Ponts ParisTech)	Opening
15h10-15h45	Simon JAMES (CS8 Consulting, France)	What is expected from the cement in cementing for the life of the well?
15h45-16h20	Matteo LOIZZO (Consultant, Germany)	Non-Destructive Testing of cement using logs: quantifying integrity defects, geometry and mechanical properties of the cement sheath
16h20-16h50	Informal discussions in Gather.Town	
16h50-17h25	Man-Huyen VU (CURISTEC, France)	Cement mechanical integrity design challenges
17h25-18h00	Malin TORSÆTER (SINTEF, Norway)	Ensuring long-term cement integrity after well P&A
18h00-18h30	Informal discussions in Gather.Town	

<b>Thursday 25 March: Characterization &amp; modeling</b>		
15h00-15h35	Louis ZINSMEISTER (TOTAL, France)	Continuous mechanical characterization of cement during and post hardening
15h35-16h10	Siavash GHABEZLOO (Laboratoire Navier, Ecole des Ponts ParisTech, France)	Thermo-poro-mechanical behavior of an oil well cement paste
16h10-16h40	Informal discussions in Gather.Town	
16h40-17h15	Konrad KRAKOWIAK (University of Houston, TX, USA)	Lightweight cement systems for thermal insulation of wells operating in HTHP conditions
17h15-17h50	Agathe ROBISSON (Technische Universität Wien, Austria)	Suspensions sedimenting in a horizontal annulus: A model for oilfield cements in horizontal wells
17h50-18h30	Informal discussions in Gather.Town	

<b>Friday 26 March: Special and innovative cement systems</b>		
15h00-15h35	Maria JUENGER (University of Texas at Austin, TX, USA)	Alkali activated fly ash for wellbore construction and abandonment applications
15h35-16h10	Barbara KUTCHKO (National Energy Technology Laboratory, US DOE, USA)	The new science behind foamed cement
16h10-16h40	Informal discussions in Gather.Town	
16h40-17h15	Luca SORELLI (Université Laval, QC, Canada)	A multi-scale approach to characterize and analyze the effect of temperature and pressure on the life well integrity of oil well cements
17h15-17h50	Carlos FERNANDEZ (Pacific Northwest National Laboratory, USA)	Self-repairing polymer-modified cements for high-temperature wellbore applications
17h50-18h00	Philippe BENARD / Matthieu VANDAMME / Siavash GHABEZLOO (LafargeHolcim / Ecole des Ponts ParisTech)	Closing
18h00-18h30	Informal discussions in Gather.Town	

Practical organization

The symposium will be held online, in the afternoons from 3pm to 6.30pm (French time) of March 24 to March 26, 2021.

Presentations are on invitation only.

Registration is free but mandatory, by March 17, 2021.

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Organizing committee

Philippe Bénard (LafargeHolcim), Siavash Ghabezloo (Laboratoire Navier, Ecole des Ponts ParisTech), Matthieu Vandamme (Laboratoire Navier, Ecole des Ponts ParisTech)

Online user: 1

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