

Agenda

Training School-4, International Workshop & Project Meeting

Day-1, Tuesday, 18th November

Training School-4

| Venue: Technical University of Denmark, Chemical Engineering Department - Søltofts Plads Building 229 , 2800 Kgs. Lyngby, Denmark, Room: 003 Hosts: Isabel Pol Segura (iseg@flsmidth.com) and Peter Arendt Jensen (paj@kt.dtu.dk) | | | |
|---|---|--|---------------------|
| Time (CET) | Presentations | Presenter | Audience |
| 9:00 – 9:15 | Welcome and introduction to the training school | Isabel Pol Segura (FLSC) and Peter Arendt Jensen (DTU) | DCs, and presenters |
| 9:15 – 10.00 | Overview of carbonation technologies | Isabel Pol Segura (FLSC) | DCs, and presenters |
| 10.00–10.30 | Coffee break | | |
| 10.30–11.30 | Wet Carbonation Reactor | Isabel Pol Segura (FLSC) | DCs, and presenters |
| 11.30–12.30 | Semi-Dry Carbonation Reactor | Isabel Pol Segura (FLSC) | DCs, and presenters |
| 12.30– 13:30 | Lunch break | | |
| 13:30 – 14:45 | Responsible conduct of research (RCR): <ul style="list-style-type: none"> • The basics of RCR • Author- and co-authorship • The use of generative AI • Copyright | Kasper Bøgh Pedersen (DTU) | DCs, and presenters |
| 14:45 -15:00 | Break | | |
| 15:00 – 16:00 | Dilemma Game | Kasper Bøgh Pedersen (DTU) | DCs, and presenters |

Day-2, Wednesday, 19th November

Training School-4

| Venue: Technical University of Denmark, Chemical Engineering Department - Søltofts Plads Building 229 , 2800 Kgs. Lyngby, Denmark, Room: 003 Hosts: Isabel Pol Segura (iseg@flsmidth.com) and Peter Arendt Jensen (paj@kt.dtu.dk) | | | |
|---|--|-----------------------------------|---------------------|
| Time (CET) | Presentations | Presenter | Audience |
| 9:00 – 9.15 | Welcome and opening remarks | Isabel Pol Segura (FLSC) | DCs, and presenters |
| 9:15 – 10.00 | Industrial applications of carbonation | Isabel Pol Segura (FLSC) | DCs, and presenters |
| 10.00 – 10.30 | Coffee break | | |
| 10.30 – 12.30 | Multiphase flow measurements in carbonation | Till Zürner (HZDR) | DCs, and presenters |
| 12.30 – 13:30 | Lunch break | | |
| 13:30 – 14:45 | Open Access and Publishing: <ul style="list-style-type: none"> • Why Open Access matters | Maria Ravnkilde Christensen (DTU) | DCs, and presenters |

| | | | |
|---------------|--|-----------------------------------|---------------------|
| | <ul style="list-style-type: none"> The three main types of Open Access: green, hybrid and golden Where to find Open Access options (journals, discounts, embargo periods, national agreements) | | |
| 14.45 -15.00 | Break | | |
| 15.00 – 16.00 | <ul style="list-style-type: none"> Special Open Access requirements related to EU Horizon Publishing and predatory journals | Maria Ravnkilde Christensen (DTU) | DCs, and presenters |
| 18:30 – 20:30 | <ul style="list-style-type: none"> Social Activity as End of Training School | - | DCs, and presenters |

Day-3, Thursday, 20th November International Workshop

| Venue: | Technical University of Denmark, Chemical Engineering Department - Søltofts Plads Building 228A , 2800 Kgs. Lyngby, Denmark, Room: Lounge | | |
|---------------|---|--------------------|---|
| Hosts: | Isabel Pol Segura (iseg@flsmidth.com) and Peter Arendt Jensen (paj@kt.dtu.dk) | | |
| Time (CET) | Presentations | Presenter | Audience |
| 9:00 – 9.15 | Welcome and introduction to the International Workshop: Part I - Presentations from DCs + Q&A | Isabel Pol Segura | DCs, Supervisors, Consortium, External stakeholders |
| 9:15 – 9.40 | DC1 - Characterisation of raw materials, carbonated components, and cementitious products | Mengfan Yu | DCs, Supervisors, Consortium, External stakeholders |
| 9.40 – 10.05 | DC2 - Supplementary Cementitious Materials (SCMs) from Waste Concrete: Carbonation Kinetics in a Semi-Dry Stirred Reactor | Claudia Rodriguez | DCs, Supervisors, Consortium, External stakeholders |
| 10.05 – 10.30 | DC3 - Aqueous carbonation of mineral tailings: reaction mechanisms and in- Situ compositional analysis using Raman spectroscopy | Sahra Homaei | DCs, Supervisors, Consortium, External stakeholders |
| 10.30 – 11.00 | DC4 - Investigation of the carbonation performance of cement-based materials at high temperatures. | Arailym Umirova | DCs, Supervisors, Consortium, External stakeholders |
| 11.00 – 11.25 | Coffee break | | |
| 11.25 – 11.50 | DC5 - Process optimization of aqueous mineral carbonation using novel three-phase reactors. | Elena Maria Salute | DCs, Supervisors, Consortium, External stakeholders |
| 11.50–12.15 | DC6 - Streamlining experimental information for carbonation process modelling. | Zuhair Tabrizi | DCs, Supervisors, Consortium, External stakeholders |
| 12.15 –12.40 | DC7 - Integrating state-of-the-art technologies for sustainable cement production | Leonardo Varnier | DCs, Supervisors, |

| | | | |
|---------------|--|----------------------------------|---|
| | | | Consortium, External stakeholders |
| 12.40 – 13.05 | DC8 - Techno-economic assessment of CO2 neutral cement plants. | George Melitos | DCs, Supervisors, Consortium, External stakeholders |
| 13.05 – 14.05 | Lunch break | | |
| 14:05 – 14:15 | Introduction to the International Workshop: Part II - Presentations from external stakeholders + Q&A | External stakeholders | DCs, Supervisors, Consortium, External stakeholders |
| 14:15-15:00 | CO2 utilization in construction materials: Theory, practice, and industrial landscape | Sumit Srivastava, CRH | DCs, Supervisors, Consortium, External stakeholders |
| 15:00-15:15 | Break | | |
| 15:15-16:00 | Potential CO ₂ avoidance in cement and concrete production from carbonated recycled concrete fines | Duncan Herfort, Cementir Holding | DCs, Supervisors, Consortium, External stakeholders |
| 16:00- 16:45 | From atmosphere to infrastructure: Paebbl's scale-up journey from lab chemistry to real-world construction. | Luiz Miranda, Paebbl | DCs, Supervisors, Consortium, External stakeholders |
| 18:30 – 21:00 | Social Dinner | - | DCs, Supervisors, Consortium, External stakeholders |

Day-4, Friday, 21st November CO2Valorize Meeting

Venue:

Technical University of Denmark, Chemical Engineering Department -
Søltofts Plads **Building 229**, 2800 Kgs. Lyngby, Denmark, **Room: 003**

Hosts:

Isabel Pol Segura (iseg@flsmidth.com) and Peter Arendt Jensen (paj@kt.dtu.dk)

| Time (CET) | Presentations | Presenter | Audience |
|---------------|--|--------------------------|------------------------------|
| 9:00 – 9:15 | Welcome and introduction to the Project Meeting | Isabel | DCs, Supervisors, Consortium |
| 9:15 – 10.15 | Supervisory Project Review Meeting | Isabel, Supervisors | DCs, Supervisors, Consortium |
| 10.15-10.35 | Coffee Break | | |
| 10.35 – 11.30 | Open Discussion of Project Results and IP Exploitation | Isabel, Supervisors, DCs | DCs, Supervisors, Consortium |
| 11:30 – 12.15 | Laboratory Tour of the CHEC Research Group | Peter | DCs, Supervisors, Consortium |

| | | | |
|---------------|-----------------------------------|--------|------------------------------------|
| 12:30 – 13:30 | Lunch Break | | |
| 13:30 – 14:30 | Outlook for next year and wrap-up | Isabel | DCs, Supervisors, Consortium |