

# Earth Construction Forum 2025

| Freitag Vormittag/Friday Morning |                                                                                                                                                    |                                                                   |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| 08.30 – 09.00                    | Empfang & Anmeldung<br>Reception & Registration                                                                                                    |                                                                   |
| 09.00 – 09.30                    | <b>Begrüssung und Beginn</b><br><b>Welcome &amp; Start of Conference</b>                                                                           | Prof. Dr. Ivan Markovic<br>Prof. Simone Stürwald<br>Stefanie Graf |
| 09.30 – 10.00                    | <b>Lehm, der Baustoff der Schweiz</b><br>Prof. Dr. Guillaume Habert<br>Chair for Sustainable Construc-<br>tion, ETH Zurich                         | Prof. Dr. Guillaume<br>Habert                                     |
| 10.00 – 10.30                    | <b>Tragendes Lehmsteinmauer-<br/>werk – Herausforderungen<br/>und Chancen</b><br>Susanne Fröhlich<br>Projektleiterin Conclay, Kimm<br>GmbH & Co KG | Susanne Fröhlich                                                  |
| 10.30 – 11.15                    | Pause/Break                                                                                                                                        |                                                                   |
| 11.15 – 11.45                    | <b>Bauen mit Stampflehm</b><br>Thomas Honermann<br>Lehm Ton Erde                                                                                   | Thomas Honermann                                                  |
| 11.45 – 12.15                    | <b>Lehm just in time!</b><br><b>Vom Aushub zum Deckputz</b><br>Miro de Monaco<br>Genossenschaft Werkzeug                                           | Miro de Monaco                                                    |
| 12.15 – 12.45                    | <b>Lehmbau – auch zukünftig<br/>mehr als Bauen?</b><br>Christiane Löffler<br>Vorstand IG Lehm                                                      | Christiane Löffler                                                |
| 12.45 – 13.00                    | Abschluss Allgemeines<br>Lehmbauforum<br>Conclusion General Earth<br>Construction Forum                                                            | Prof. Dr. Ivan Markovic<br>Prof. Simone Stürwald                  |
| 13.00 – 14.00                    | Mittagessen/Lunch                                                                                                                                  |                                                                   |

| Freitag Nachmittag/Friday Afternoon |                                                                                                                                  |                                |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| 14.00 – 14.15                       | Shrinkage mitigation of earth-<br>based materials: from practical<br>measurement setup to sustaina-<br>ble additives             | Dr. Yi Du                      |
| 14.15 – 14.30                       | Experimental Investigation of the<br>Bond Performance Between<br>Dry Basalt Yarn and Earthen<br>Materials                        | Delara Etezzad                 |
| 14.30 – 14.45                       | Raw Earth Masonry: physical-me-<br>chanical analysis of compressed<br>earth blocks stabilized with<br>different types of cements | Jose Eduardo<br>Mendes de Lima |
| 14.45 – 15.00                       | Alternative binders for industrial<br>compressed earth blocks                                                                    | Dr. Rodrigo<br>Fernandez       |
| 15.00 – 15.30                       | Pause/Break                                                                                                                      |                                |
| 15.30 – 15.45                       | From Manual to Machine: Auto-<br>mating a Rammed Earth<br>Construction Process                                                   | Dr. Tobias<br>Bonwetsch        |
| 15.45 – 16.00                       | Experimentally Determined<br>Material Properties of Compres-<br>sed Earth Block Masonry                                          | Iris Durrer                    |

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| 16.00 – 16.15 | Hygrothermal properties driving<br>comfort in earth constructions:<br>a sensitivity analysis                                                     | Gustavo Bittencourt |
| 16.15 – 16.30 | Beyond the hype: is poured earth<br>truly a low-cost and low-carbon<br>alternative?                                                              | Dr. Daria Ardant    |
| 16.30 – 17.00 | Pause/Break                                                                                                                                      |                     |
| 17.00 – 17.45 | Panel «Earth Construction Today<br>and Tomorrow»                                                                                                 |                     |
| 17.45 – 18.00 | Mechanical properties of screed<br>based on earthen binders                                                                                      | Julian Mönig        |
| 18.00 – 18.15 | Innovative Use of Ferric Soils in<br>Unfired Compressed Earth<br>Bricks: Influence of Particle Size<br>Distribution on Mechanical<br>Performance | Nour Daher          |
| 18.15 – 18.30 | Turning Sludge into Structure:<br>Clay-Rich Residues for Poured<br>Earth Construction                                                            | Toni Bakovic        |
| 18.30         | Abendessen/Dinner                                                                                                                                |                     |

| Samstag Vormittag/Saturday Morning |                                                                                                          |                                                  |
|------------------------------------|----------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 08.30 – 08.45                      | Welcome + Start Saturday<br>Sessions                                                                     | Prof. Dr. Ivan Markovic<br>Prof. Simone Stürwald |
| 08.45 – 09.00                      | Data collection and analysis on<br>the mechanical properties of<br>rammed earth                          | Yuhan Zhu                                        |
| 09.00 – 09.15                      | Fibreglass Mesh and Cement<br>Slurry: Understanding Adobe<br>Plaster Detachment on Rigid<br>Substrates   | Dr. Amdjed Islam Dali                            |
| 09.15 – 09.30                      | Subset Moisture Equilibrium<br>as a Conditioning Approach for<br>Earthen Materials                       | Katharina Pfahler                                |
| 09.30 – 09.45                      | Circularity and Standardization<br>of Earth Based Materials                                              | Prof. Simone Stürwald                            |
| 09.45 – 10.30                      | Pause/Break                                                                                              |                                                  |
| 10.30 – 11.15                      | Panel «Standardisation»                                                                                  |                                                  |
| 11.15 – 11.30                      | From Excavation Waste to<br>Indoor Comfort                                                               | Hannes Praks                                     |
| 11.30 – 11.45                      | Shot-Earth in Structural Compo-<br>sites: Bridging Experimental<br>Research and Construction<br>Practice | Marco Viviani                                    |
| 11.45 – 12.00                      | Development of Earth-based<br>Mixtures for 3D-Printing:<br>Feasibility Study                             | Prof. Dr. Ivan Markovic                          |
| 12.00 – 12.15                      | Abschluss Earth Construction<br>Forum<br>Conclusion Earth Construction<br>Forum                          | Prof. Dr. Ivan Markovic<br>Prof. Simone Stürwald |