

Wednesday September 5th

10.00 – 10.30 Registration&Coffee

10.30 – 10.45 Welcome address by Oliver Ernst (GAMM-UQ)

10.45 – 11.45 Invited talk

Marco Iglesias – University of Nottingham
Advances in Ensemble Kalman Inversion

11.45 – 12.35 Contributed talks

11.45-12.10 Michael Tso (University of Lancaster)

Integrated hydrogeophysical modelling and data assimilation for geoelectrical leak detection

12.10-12.35 Svetlana Dubinkina (CWI)

Particle Filtering for Inverse Problems

12.35 – 14.00 Lunch break

14.00 – 15.15 Contributed talks

14.00-14.25 Barbara Carrera (Technical University of Munich)

Efficient estimation of hydraulic conductivity fields with non-redundant information from head data: A comparison between linearization and sequential sampling methods

14.25-14.50 Emanuela Bianchi Janetti (Politecnico di Milano)

Uncertainty quantification and characterization of an Italian sedimentary aquifer

14.50-15.15 Ivo Colombo (Geolog S.r.l.)

Uncertainty Quantification of geochemical and mechanical compaction in layered sedimentary basins

15.15 – 15.45 Coffee break

15.45 – 17.00 Contributed talks

15.45 – 16.10 Matteo Icardi (University of Nottingham)

Upscaling particle transport in porous media: PDF and stochastic methods

16.10 – 16.35 Aronne dell'Oca (Politecnico di Milano)

Moment Equations for Tracer Solute Transport in Composite Media with uncertain dispersivities

16.35 – 17.00 Marco Berardi (Irsa – CNR)

Richards' equation as an initial value problem: a Bayesian point of view

17.30 Icebreaker Aperitivo

Thursday September 6th

9.00 – 10.00 Invited talk

Colin Fox (University of Otago)

Adaptive error models for efficient uncertainty quantification with application to subsurface fluid flow

10.00 – 11.00 Invited talk

Alberto Guadagnini (Politecnico di Milano)

Probabilistic assessment of environmental impacts of hydraulic fracturing scenarios

11.00 – 11.20 Coffee break

11.20 – 12.35 Contributed talks

11.20 - 11.45 Olivier Zahm (INRIA)

Certified dimension reduction of the input parameter space of vector-valued functions

11.45 - 12.10 Erik von Schwerin (KAUST)

Multilevel Monte Carlo Acceleration of Seismic Wave Propagation under Uncertainty

12.10 – 12.35 Panagiotis Tsifilis (EPFL)

Variational inference and Geodesic Monte Carlo for Polynomial Chaos adaptation

12.35 – 14.00 Lunch break

14.00 – 15.15 Contributed talks

14.00-14.25 Albrecht Schmidt (Bauhaus-Universität Weimar)

Efficient reliability analysis for fuzzy cross-correlated random field material parameters of an hydro-mechanical coupled system

14.25-14.50 Dimitris Kamilis (The University of Edinburgh)

Uncertainty Quantification for low-frequency Maxwell equations with applications in the controlled-source electromagnetic method

14.50-15.15 Yves Antonio Brandes (Politecnico di Milano)

Isogeometric Hierarchical Model Reduction for Bayesian Inverse Problems in CFD

15.15 – 15.45 Coffee break

15.45 – 17.00 Contributed talks

15.45 – 16.10 Sandra Pieraccini (Politecnico di Torino)

Uncertainty quantification analysis in discrete fracture network flow simulations

16.10 – 16.35 Alessio Quaglino (Università della Svizzera Italiana)

Multifidelity methods for estimating the influence of overpressure on observed induced seismicity sequences

16.35 – 17.00 Eliana Rosa Russo (Geolog S.r.l.)

Uncertainty Quantification of fracture characterization in Naturally Fractured Reservoir

17.00 – 18.30

Poster&Beer session

20.00 Social dinner

Friday, September 7th

9.00 – 10.00 Invited talk

Ahmed El-Sheikh (Heriot-Watt University)

Parameterization of stochastic inputs using generative adversarial networks with applications in geological models

10.00 – 11.00 Invited talk

Monica Riva (Politecnico di Milano)

The Generalized Sub-Gaussian Model: Theory and Applications

11.00 – 11.20 Coffee break

11.20 – 12.10 Contributed talks

11.20 - 11.45 Erik Hall (University of Massachusetts - Amherst)

Robust information divergences for model-form uncertainty arising from sparse data in random PDE

11.45 - 12.10 Cristina Prieto (University of Cantabria)

Model tests for flow predictions in ungauged basins

12.10 – 14.30 Lunch break

Interpore Italian Chapter Meeting

14.30-16.45 Invited talks

14.30 – 15.15 Fabrizio Sarghini (Università degli Studi di Napoli)

Numerical modelling of reactive porous media: the espresso coffee problem

15.15 – 16.00 Leila Moghadasi (Petroleum Engineering Laboratories , Eni-Upstream and Technical Services)

Characterization of Two- and Three-Phase Relative Permeability

16.00 – 16.45 Gianpiero Groppi (Politecnico di Milano)

Combined CFD and experimental investigation of mass transfer in open-cell foams