Conference program

09:00 - 10:00	REGISTRATION
10:00 - 10:20	Opening

Session 1

10:20 - 11:20	Keynote Lecture by Charles Fairhurst : The Action is at the Interfaces.
11:20 - 11:50	Coffee break
11:50 - 12:10	Mark Kachanov , Behrouz Abedian: On the effective vis- cosity of suspensions containing particles of diverse shapes and orientation distributions.
12:10 - 12:30	Włodzimierz Bielski, Ryszard Wojnar: Flows through nonhomogeneous porous media in gravitational field.
12:30 - 12:50	Vitaly Kuzkin , Anton Krivtsov, Aleksandr Linkov: Comparative study of rheological properties of suspensions by computer simulation of Poiseuille and Couette flows.
12:50 - 13:10	Anna Trykozko , Małgorzata Peszyńska, Marek Dohnalik: <i>Modeling non-Darcy flows in realistic pore</i> <i>scale proppant geometries.</i>

13:10 – 14:10 Цилсн

Session 2

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14:10 - 15:10	Keynote Lecture by Branko Damjanac : Application of Distinct Element Methods to Simulation of Hydraulic
	Fracturing in Naturally Fractured Reservoirs
15:10 - 15:30	Aleksandr Linkov : Asymptotic umbrella and its appli- cation to modeling hydraulic fractures and evaluation of the lag.

Recent Advances in Numerical Simulation of Hydraulic Fracture 2014

- 15:30 15:50 Gennady Mishuris, Michał Wróbel: Numerical simulation of hydraulic fracturing: universal algorithm based on the particle velocity.
 15:50 – 16:10 Nikolai Weber, Philipp Siebert, Karen Willbrand, Martin Feinendegen, Christoph Clauser and Thomas Fries: Modeling hydraulic fracture propagation in 3D with the XFEM.
- 16:10 16:40 Coffee break
- 16:40 17:00 **John Napier**: Simulation of flow path propagation and branching in crack networks.
- 17:00 17:20 Arash Dahi Taleghani: Overview of models for interactions between hydraulic fractures and natural fractures: challenges and limitations.
- 17:20 17:40 Andreas Bauer, Idar Larsen, Alexandre Lavrov: Coupling a fracturing code to a transient reservoir simulator: some practical aspects and experiences.

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Day 2 – Tuesday, 15 July

- 14:00 EXCURSION + DINNER

Session 3

PhD presentations

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14:50 - 15:10	Dawid Jaworski : On increasing accuracy of simulations stresses near propagating hydrofracture.
15:10 - 15:30	Ivan Karpenko : It's time for the next level of shale gas industry in Poland and Ukraine.
15:30 - 15:50	Piotr Kuśmierczyk : New multifracuring model build on improved PKN formulation.
15:50 - 16:10	Daniel Peck : Multiple particles in the Hele-Shaw flow.
16:10 - 16:40	Coffee break
16:40 - 17:00	Monika Perkowska : Universal hydrofracturing algorithm for shear-thinning fluids.
17:00 - 17:20	Ewa Rejwer : Influence of closely located nearly paral- lel cracks on numerical modeling of hydraulic fractures in shales.
17:20 - 17:40	Ferdinand Stoeckhert, Sebastian Brenne, Michael Molenda, Michael Alber: Fracture mechanical modeling of hydraulic fracturing laboratory experiments under isostatic and triaxial loading.

19:00 – Conference dinner

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Day 3 – Wednesday, 16 July

Session 4 9:00 - 10:00Keynote Lecture by Mirko van der Baan, Drew Chorney, Vincent Roche: Geomechanical Modeling of Induced Seismicity 10:00 - 10:20Aleksandr Linkov, Liliana Rybarska-Rusinek: On numerical simulation of seismicity induced by hydraulic fracturing. Boris Tarasov: Fan-structure shear rupture mechanism as 10:20 - 10:40a source of off-fault tensile cracking in brittle materials. 10:40 - 11:00Justin Pogacnik, Derek Elsworth, Mike O'Sullivan, John O'Sullivan: A damage mechanics approach to the simulation of hydroshearing arround an injection well. 11:00 - 11:30COFFEE BREAK 11:30 - 11:50Simon Cox, David Ferguson: The effects of pore geometry on foam flow in porous media. 11:50 - 12:10Sergei Rogosin: Moving stone in the Hele-Shaw flow. 12:10 - 12:30Oleksii Karpenko, Volodymir Mykhailov, Ivan Karpenko: Determination of input parameters for modeling and successful hydraulic fracturing. 12:30 - 12:50Janusz Makówka: Directed hydraulic fracturing from underground workings - past and future of application. 13:00 - 14:00LUNCH CLOSING CEREMONY 14:00 - 15:00

16:00 - 17:00 Coffee break