

MRS2021 - Detailed technical program

Session	Speaker	TITLE
Tue 26 / 9h (CET)	Organizing committee	Welcome & introduction
Tue 26 / 9h-10h30 (CET) <i>Case studies & monitoring</i>	Li Kaitian (V)	The use of Surface Nuclear Magnetic Resonance to characterize the alluvium of the Er Mine in Kuche, China
	Bertrand Mathieu (P)	Groundwater fast drainage dynamics in the Barrois limestones; evidences from an MRS monitoring.
	Yang Zhang (V)	Noise attenuation of magnetic resonance sounding signal using fully convolutional networks
	Costabel Stephan (V)	First field experiences using surface nuclear magnetic resonance with prepolarization (SNMR-PP)
	Hanqing Zhao (V)	The Progress of Shutoff Circuit Design and Estimation for Pre-polarization SNMR Technique
Tue 26 / 11h-12h30 (CET) <i>Borehole NMR & noise reduction</i>	Shushakov Oleg (V)	Heat exchange impact on NMR logging while drilling
	Gaikwad Nikhil (P)	Thermal Model of the Apsu Transmitter for Lightweight and Compact Heat Sink Design
	Legchenko Anatoly (P)	Surface-Borehole NMR Sensor
	Michel Hadrien (P)	Application of BEL1D for sNMR data interpretation
	Pengfei Wang (V)	A Special Construction Loop for Harmonic Noise Cancellation in Situ
	Larsen Jakob Juul (P)	Mitigation of powerline noise in surface NMR data: Estimation of the fundamental frequency using convolutional neural networks
Tue 26 / 14h-15h30 (CET) <i>Case studies & monitoring</i>	Lutz Pascale (P)	Study and characterization of the groundwater resource of the Sandricourt domain (Oise, France) using Magnetic Resonance Sounding and Electrical Resistivity Tomography
	Vang Mathias (P)	Resolving regional variations in groundwater table using SNMR
	Girard Jean-François (P)	Magnetic resonance in weathered & fractured granite aquifer: case studies in Alsace
	Irons Trevor (V)	Small-loop surface NMR and high resolution ERT soil evolution monitoring at the Midtre Lovénbreen glacial forefield in Ny-Alesund, Svalbard
	Baltassat Jean-Michel (P)	3-D SNMR monitoring of the Tête-Rousse glacier - 2012-2018
Tuesday 26/10 <i>evening</i>	on-site participants	City Tour Gala dinner
Wed 27 / 9h-10h30 (CET) <i>MRS & hydro models</i>	Li Yulin (V)	Application of Magnetic Resonance Sounding and Electrical Resistivity Tomography to investigate the lateral seepage of the Yellow River in Liaocheng area, China
	Lesparre Nolwenn (P)	Global sensitivity analysis of Magnetic Resonance Sounding simulated responses to the hydraulic parameters of a catchment hydrogeological model
	Shushakov Oleg (V)	Examples of the Bloch-Siegert effect in MRS
	Skibbe Nico (P)	COMET - A toolbox for modelling and inversion of surface SNMR
	Legchenko Anatoly (P)	Investigation on unsaturated water flow in karst limestone of the Beauce aquifer (France) using time-lapse MRS measurements
Wed 27 / 11h-12h30 (CET) <i>Advanced sequences & modeling</i>	Grombacher Denys (P)	A steady-state approach to surface NMR
	Hiller Thomas (V)	Accounting for the excitation pulse shape in modelling prepolarized surface nuclear magnetic resonance (SNMR-PP)
	Griffiths Matthew (P)	A surface NMR forward model for steady-state free-precession excitations
	Mueller-Petke Mike (P)	State-of-the-art and progress using prepolarization for surface Nuclear-Magnetic-Resonance
	Liu Lichao (P)	Signal extraction of surface NMR steady-state free precession sequence data
Wed 27 / 14h-14h45 (CET) <i>Discussion & Outlooks</i>	remote & on-site participants	Discussion about the state of the art - trends - future developments and several topics to be proposed
Wed 27 / 15h-17h00 (CET) <i>Overview of MRS softwares</i>	remote & on-site participants	Short demonstrations of available MRS softwares (opensource or free). Planned software & speakers: Akvo : T. Irons (V) MRSmatalab : N. Skibbe (P) Comet : M. Müller-Petke (P) Samovar : A. Legchenko (P)

(P) on-site, (V) virtual