

**APSLIM/IWSA 2022
Programme of the Workshop**

Monday, May 30		
17:00	Departure of the bus from the Airport, Terminal 2	
17:15	Departure of the bus from Zličín, station M	
19:00	Estimated arrival to Želiv	
20:00	Icebreaker reception	
Tuesday, May 31		
8:00-9:00	Breakfast	Page
Morning session, chairman Leo Eisner		
9:00-9:35	Roger D. Borchardt: Implications of General Viscoelastic Ray Theory for Anelastic Geophysical Models	1
9:35-10:10	Luděk Klimeš: Extension of ray theory to anisotropic viscoelastic media	3
10:10-10:45	Veronique Farra, Ivan Pšenčík*: Geometrical spreading of a P wave in a horizontally layered weakly-to-moderately anisotropic medium	5
10:45-11:20	Coffee break	
11:20-11:55	James Ludlam*, Katy Tant, Victoria Dolean and Andrew Curtis: Fast 2D travel time fields and ray tracing calculations in strongly anisotropic media	7
11:55-12:30	Mengqi Li and Alexey Stovas*: On perturbation of eikonal equation in HTI models	9
12:40-14:00	Lunch	
Afternoon session, chairman Bjorn Ursin		
14:00-14:35	Václav Bucha: Kirchhoff pre-stack depth scalar migration using the prevailing-frequency approximation of the coupling ray theory	11
14:35-15:10	Maarten V. de Hoop: Advances in inverse problems in anisotropic elasticity for high-frequency waves	13
15:10-15:45	Lou Parkes: Seismic array analysis for the robust observation of anisotropy	15
15:45-16:20	Coffee break	
16:20-16:55	Ed Wright*, Chris Hanevel, René-Édouard Plessix: An example of multi parameter finite frequency tomography	17
16:55-17:30	T.J. Moser: Huygens' principle and diffraction - a complex history	20
18:00	Monastery excursion	
19:00	Dinner	
Wednesday, June 1		
8:00-9:00	Breakfast	
Morning session, chairman Alexey Stovas		
9:00-9:35	Petr Bulant* & Luděk Klimeš: Prevailing-frequency approximation of the coupling ray theory for S waves along the SH and SV reference rays	21
9:35-10:10	Kristoffer Tesdal Galtung* and Alexey Stovas: Diving waves in factorised orthorhombic media	23
10:10-10:45	Igor Ravve* and Zvi Koren: Slowness vector and ray velocity magnitude from ray direction in TTI media	25
10:45-11:20	Coffee break	
11:20-11:55	Bjørn Ursin* and Lasse Amundsen: On Richards' paradox	27
11:55-12:30	T.J. Moser: Update of diffraction imaging and modeling - methods and applications	29
12:40-14:00	Lunch	
14:00 - 19:00	Tour to UNESCO town Telč	
19:00	Barbecue	
Thursday, June 2		
8:00-9:00	Breakfast	
Morning session, chairman Igor Ravve		
9:00-9:35	Morten Jakobsen*, Ujjwal Shekar, Kui Xiang and Jakub W. Both: Simultaneous estimation of microseismic source parameters and velocity model using a Gauss-Newton consistent scattering approach	31
9:35-10:10	Maarten V. de Hoop: Anatomy of Mars SEIS data from deep learning	33
10:10-10:45	Ujjwal Shekhar*, Morten Jakobsen, Einar Iversen, Inga Berre: Fast integral equation method for micro-seismic waveform modeling	35
10:45-11:20	Coffee break	
11:20-11:55	Miłosz Wcisło*, František Staněk, František Gallovič, Shaojiang Wu and Ivan Pšenčík: Induced supershear microseismic event with rupture directivity and superimposed attenuation effects	37
11:55-12:30	Leo Eisner: Pore Pressure Mapping Using Microseismicity and Borehole Data	39
12:40-14:00	Lunch	
Afternoon session, chairman Tijmen Jan Moser		
14:00-14:35	Miłosz Wcisło*, Ivan Pšenčík and José Carcione: Comparison of ray and full-wave synthetic seismograms of reflected SH waves in attenuating media	41
14:35-15:10	Alexey Stovas*, Yuriy Roganov and Vyacheslav Roganov: The degenerate elastic orthorhombic models	43
15:10-15:45	Leon Thomsen* and Colin Sayers: Seismic anisotropy of fractured shales	45
15:45-16:20	Coffee break	
16:20-16:55	Leon Thomsen: The Logical Error in Gassmann Poroelectricity: Experimental Data	47
16:55-17:30	General discussion, votes for publication of Proceedings, votes for the next APSLIM/IWSA	
18:00	Monastery Brewery excursion	
19:00	Farewell party	
Friday, June 3		
8:00-9:00	Breakfast	
10:00	Bus departure from Želiv	
11:45	Estimated stop at Zličín	
12:00	Estimated arrival to the Prague Airport	