2020 ANNUAL MEETING
Forum for Exploration and Development Geophysics Education and Research (EDGER)

AGENDA

Friday, March 27th, 2020 (Online Annual Meeting)

8:00 AM	**Zoom meeting opens**
8:30–9:00 AM	Welcome addresses (Mrinal Sen, Nicola Tisato, and Kyle Spikes)

Session I: Rock physics and reservoir characterization

09:00–09:25 AM	Laboratory experiment of low-frequency attenuation in fractured Brea Sandstone part 1: Low-frequency module – Ken Ikeda
09:25–09:50 AM	Targeted computed tomography, Part II: Addressing issues with quantitative CT scanning – Eric Goldfarb
09:50–10:15 AM	Image analysis for depth-dependent quantitative grain-size distribution for a Permian Basin Reservoir – David Tang
10:15–10:40 AM	Well-log facies classification using a semi-supervised algorithm – Wei Xie
10:40–10:50 AM	**Break**
10:50–11:15 AM	Deformation and permeability in tight rock formations by means of X-ray tomography and tri-axial testing – Omar Alamoudi
11:15–11:40 AM	Measurements of seismic wave attenuation in bubbly liquids: The WIGED mechanism – Ziqi Jin

Session II: New students

11:40–11:45 PM	Dmitri Voytan
11:45–11:50 PM	Arnab Dhara
11:50-12:00 PM	Reservoir parameter estimation by seismic inversion and machine learning – Jackson Tomski

12:00 PM	**Zoom meeting closes**
12:00–01:00 PM	**Lunch**
12:45 PM	**Zoom meeting reopens**

Session III: Numerical methods: Wavefield simulations, inversion methods, and machine learning

01:00–01:25 PM	Mini-batch least-squares reverse time migration in a deep learning framework – Janaki Vamaraju
01:25–01:50 PM	Pre-stack seismic inversion from deep learning with cross-shape deep Boltzmann machine – Son Phan
01:50–02:15 PM	Density estimation by trans-dimensional AVA inversion: A filed data example – Reetam Biswas
02:15–02:40 PM	Full waveform inversion using machine-learning methods – Ricardo Braganca
02:40–02:50 PM	**Break**
02:50–03:15 PM	A phase space beam summation imaging in inhomogeneous media – Ram Tuvi
03:15–03:40 PM	Meshfree modeling using p-refined radial basis-finite differences – Pankaj Mishra
03:40–04:05 PM	Full-waveform inversion with a gradient based Markov chain Monte Carlo method and uncertainty quantification, application on Axial seamount – Zeyu Zhao
04:05-04:15 PM	Wrap up – Mrinal Sen, Kyle Spikes, and Nicola Tisato
04:15 PM	Adjourn
04:15 PM	**Zoom meeting closes**