Presentation Title & Author	Video
Technical Program begins: Meeting Overview—IDENTIFYING AND RESPONDING TO PRIORITIZED AND PRESSING SEISMIC EXPLORATION CHALLENGES - Arthur B. Weglein*	23-1
A new method for deghosting data collected on a depth-variable acquisition surface by combining Green's theorem wave separation followed by a Green's theorem wave prediction for one-way propagating waves - Jing Wu* and Arthur Weglein	23-2
Impact of the topography of the acquisition surface on preprocessing and subsequent free surface multiple elimination and depth migration: describing the challenge and providing an effective response - Zhen Zhang* and Arthur Weglein	23-3
Impact of the topography of the acquisition surface on the effectiveness of the ISS internal multiple attenuation and elimination algorithms: analyzing the problem and providing and delivering a response to the challenge - Yuchang Shen* and Arthur Weglein	23-4
Summary of previous contributions on Green's theorem preprocessing for offshore and onshore applications- Jing Wu*	23-5
A tutorial on the inverse scattering series: distinct isolated task subseries for removing free surface and internal multiples - Arthur B. Weglein*	23-6
Testing, evaluating and analyzing the inverse scattering series internal multiple attenuation algorithm for an ineslastic earth without knowing or needing the elastic or inelastic subsurface properties- Jing Wu*	23-7
A multidimensional method that eliminates internal multiples: a new toolbox option for removing multiples that interfere with primaries, without damaging the primary, and without any knowledge of subsurface properties. - Yanglei Zou*, Chao Ma and Arthur Weglein	23-8
Comparing the new Inverse Scattering Series (ISS) internal-multiple-elimination algorithm and the industry-standard ISS internal-multiple-attenuation algorithm plus adaptive subtraction when primaries and internal multiples interfere and where we can evaluate the efficacy using wave-theoretical data consisting of only primaries - Chao Ma*, Yanglei Zou, and Arthur Weglein	23-9

Short note: An alternative adaptive substraction criteria (to energy minimization) for free surface multiple removal - Arthur B. Weglein*	23-10
A new research consortium to advance low frequency active seismology: reaching one hertz and beyond - Professor Mark A. Meier, Physics Dept./University of Houston	23-11
The physics of porous media and seismoelectric wave propagation: A new model and opportunity - Dr. Neils Grobbe, MIT, Math Dept. and Earth Resources Laboratory	23-12
Green's theorem tutorial Part II: for wave field prediction: imaging conditions, one-way and two-way wave equation migration for a more effective and fundamentally more capable and interpretable migration for improved resolution and amplitude analysis at the target and reservoir (Stolt extended C III imaging for migrating in a heterogeneous media). - Arthur B. Weglein*	24-1
An initial study to quantify the resolution difference between an industry leadingedge migration, RTM, and the first migration method that is equally effective at all frequencies at the target - Qiang Fu*, Yanglei Zou, and Arthur Weglein	24-2
A wedge resolution comparison between RTM and the first migration method that is equally effective at all frequencies at the target: tests and analysis with both conventional and broadband data - Yanglei Zou*, Qiang Fu and Arthur Weglein	24-3
A method that guides and assures that when computing the Green's function it will achieve and deliver equal effectiveness for all frequencies at the target and reservoir in Stolt extended C III migration for heterogeneous media - Fang Liu, Qiang Fu* and Arthur Weglein	24-4
An executive summary review, ISS depth imaging from synthetic data to viability on field data and update - Arthur B. Weglein*	24-5
The strategy and recent progress in taking the ISS direct depth imaging without a velocity model from a demonstrated field data viability to an option in the seismic imaging tool box - Chao Ma* and Arthur B. Weglein	24-6
Meeting summary, overview of progress and plans, and meeting adjournment- Arthur B. Weglein*	24-7