Simulation/Visualization Contest
Simulation and Visualization Contest Winners!

- We held a contest for the most interesting simulations and visualizations.
- So many good entries that we broke it into 2 categories, still images and animations.
- Entries were judged on aesthetic qualities, novelty of the approaches, and the notability of the application.
- Results will be featured on the MFEM webpage, and the winners will receive MFEM T-Shirts.
Runner up for Still Images
Penrose unilluminable room appears rather illuminable in 3D. Solution to Helmholtz equation computed using the WaveHoltz iterative algorithm with the symmetric interior penalty DG discretization accelerated on GPU.

Amit Rotem
Virginia Tech
Winner for Still Images
Winner for Still Images

Displacement distribution of a loaded excavator arm under static equilibrium. Using MFEM, a library has been developed for simulating deformable articulated mechanical assemblies, consisting of elastic bodies interconnected via various joint types.

Mehran Ebrahimi
Autodesk Research
Runner up for Animations
Runner up for Animations

Shock-bubble-interaction utilizing a property-preserving discontinuous Galerkin scheme.

Hennes Hajduk
University of Oslo
Winner for Animations
Winner for Animations

Leapfrogging vortex rings based on an MFEM incompressible Schrödinger fluid solver, which captures thin vortex dynamics without advection and non-linear terms.

John Camier
LLNL
Tons of great entries this year!
Wrapup
MFEM Resources

- Github:
  - Repo - https://github.com/mfem/mfem
  - Issues - https://github.com/mfem/mfem/issues
  - Group - https://github.com/orgs/mfem/teams/everyone

- mfem.org:
  - Front page – https://mfem.org
  - Workshops – https://mfem.org/workshop

- Publications:
    - https://mfem.org/publications

- Contact us:
  - Slack - https://mfemworkshop.slack.com
  - Github issues - https://github.com/mfem/mfem/issues

See you all next year!
Gratitude

- Applause for the speakers
- Special thanks to the workshop planning committee: Tzanio Kolev, Will Pazner, Socratis Petrides, Ketan Mittal, Milan Holec, Vladimir Tomov, and Holly Auten.
- Thank you all for attending.