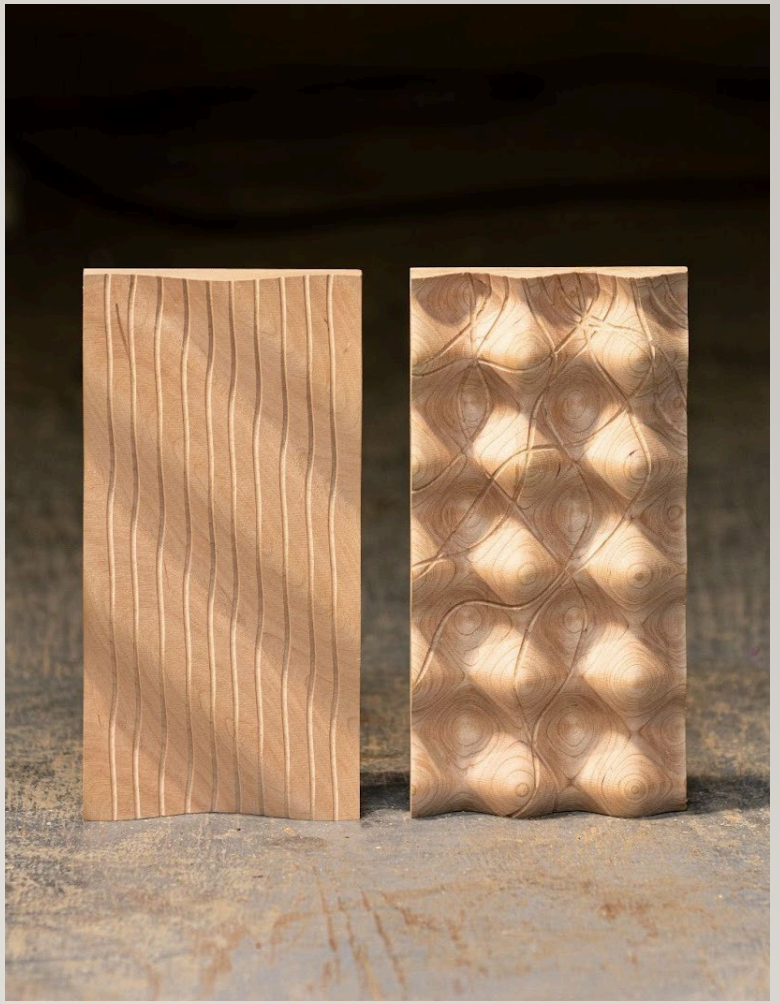


WARPED REALITIES AT MOMATH: AN EXHIBIT DEDICATED TO DIFFERENTIAL GEOMETRY

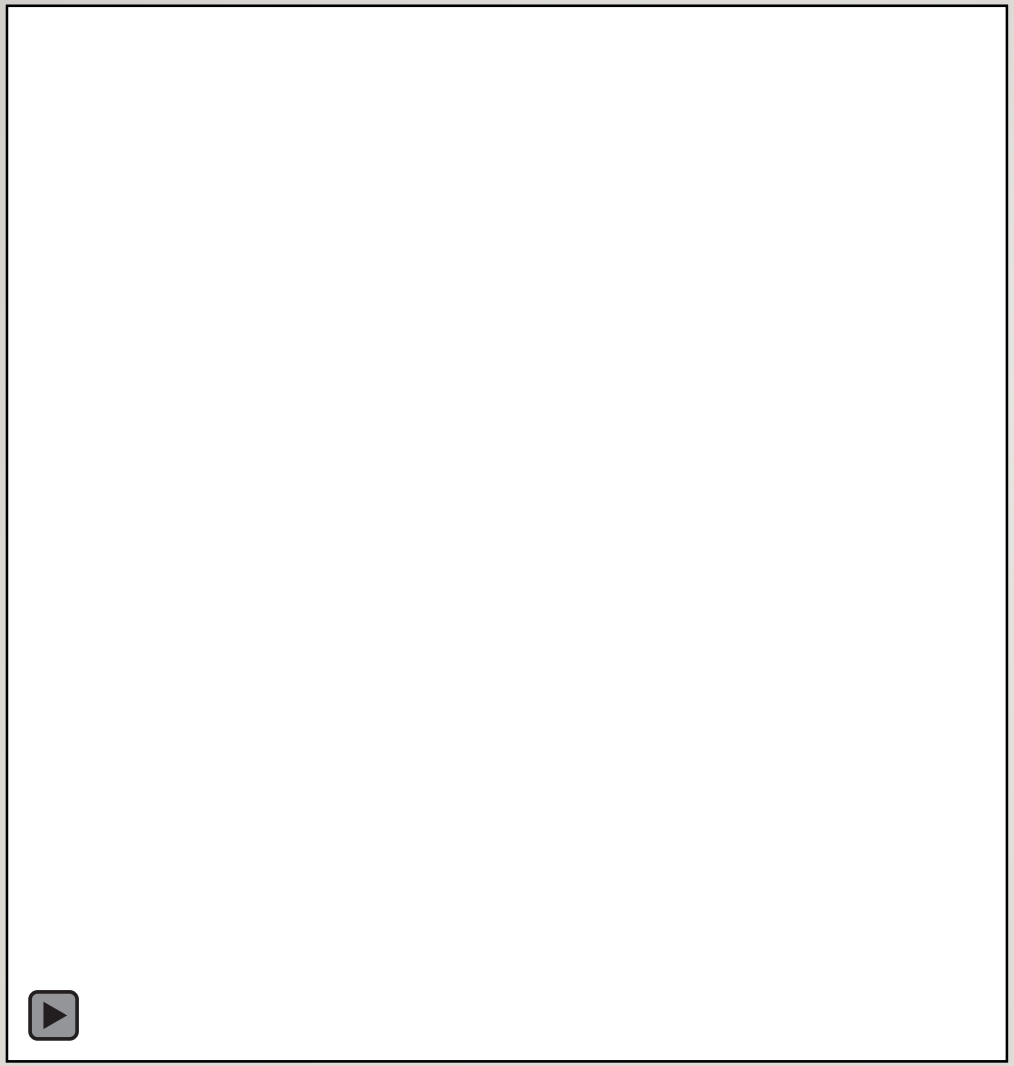
Stepan Paul, North Carolina State University

With Robert Fathauer, Edmund Harriss, Henry Segerman, and Steve Trettel



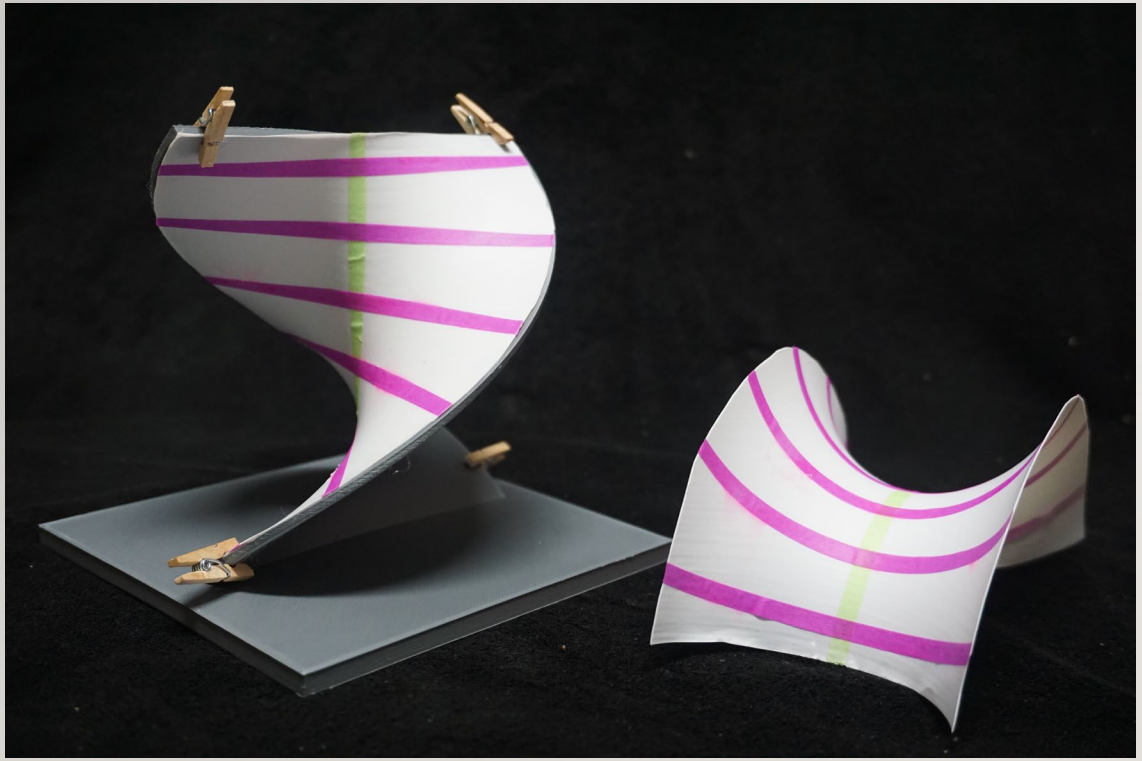


"Geodesic Boards" - Edmund Harriss and Steve Trettel – CNC carved Cherry



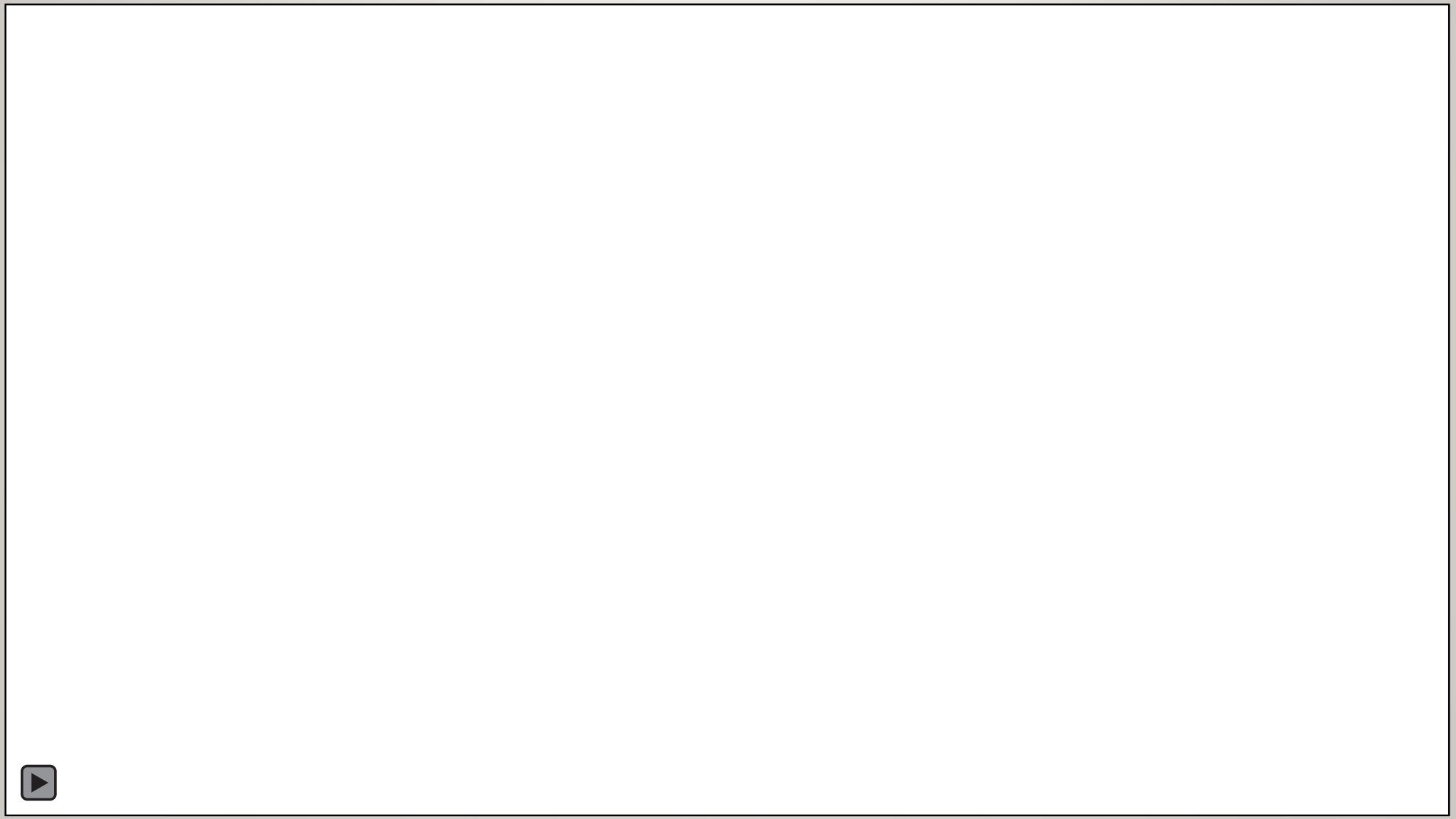
Link to interactive geodesic board app

"Geodesic Board Calculators" - Edmund Harriss and Steve Trettel





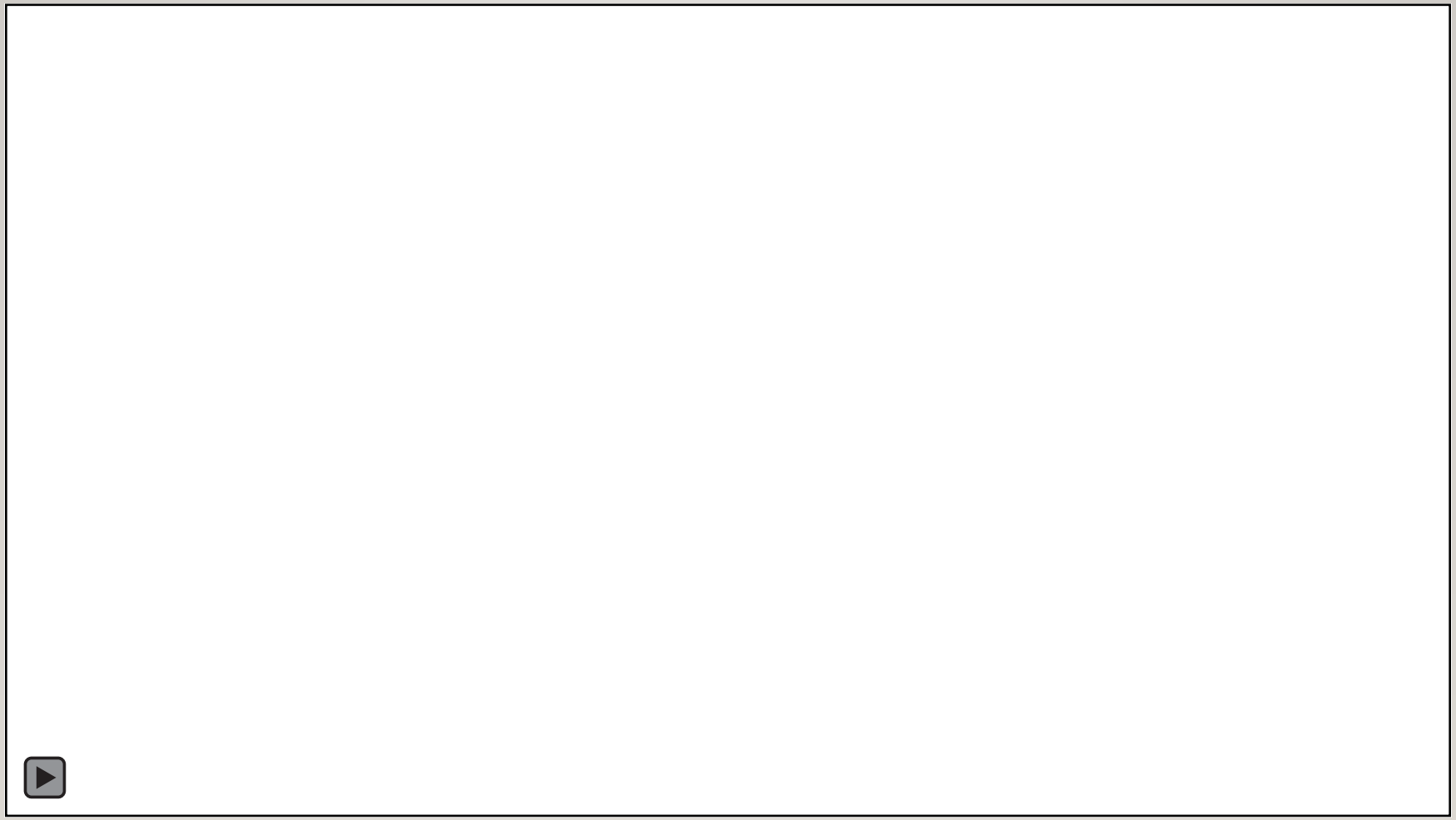
"Catenoid Flex" and "Hyperbolic Flex" – Stepan Paul – Vacuum formed polystyrene, 3D printed PLA, washi tape



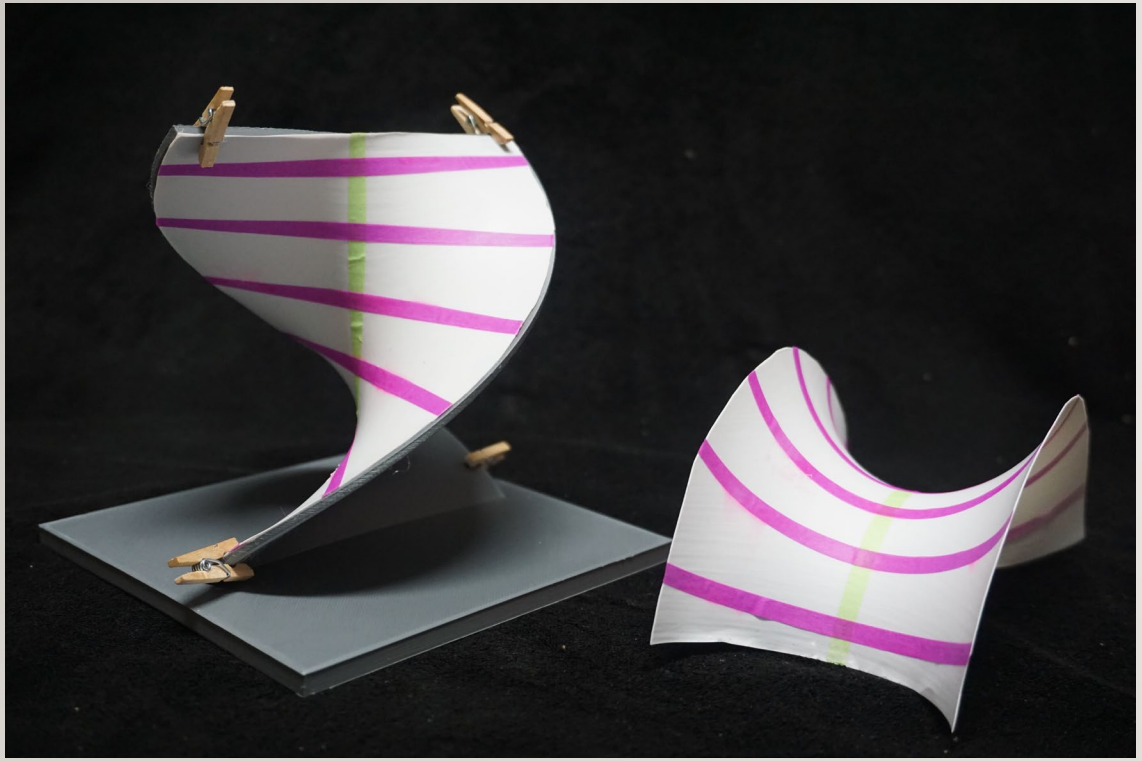
From “Surface Isometries” – Stepan Paul



"Hemisphere Flex" – Stepan Paul – 3D printed PLA, LDPE ball pit balls



From “Surface Isometries” – Stepan Paul





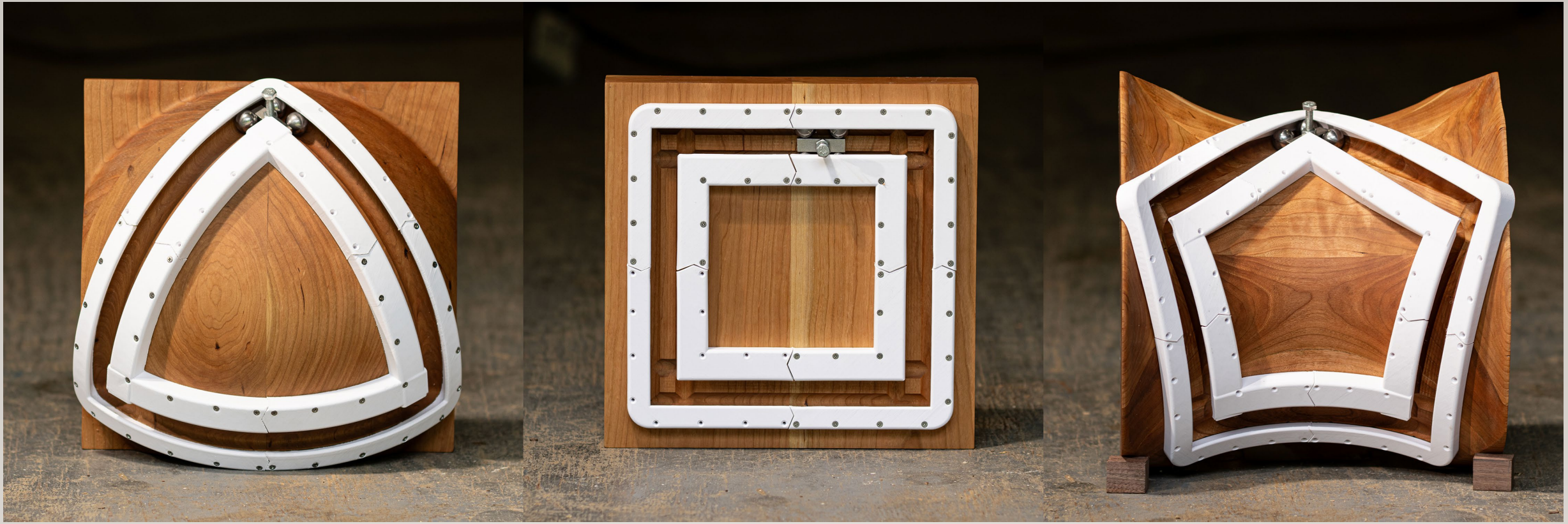
"Catenoid Flex" and "Hyperbolic Flex" – Stepan Paul – Vacuum formed polystyrene, 3D printed PLA, washi tape



"Negative Curvature" – Robert Fathauer – Ceramics



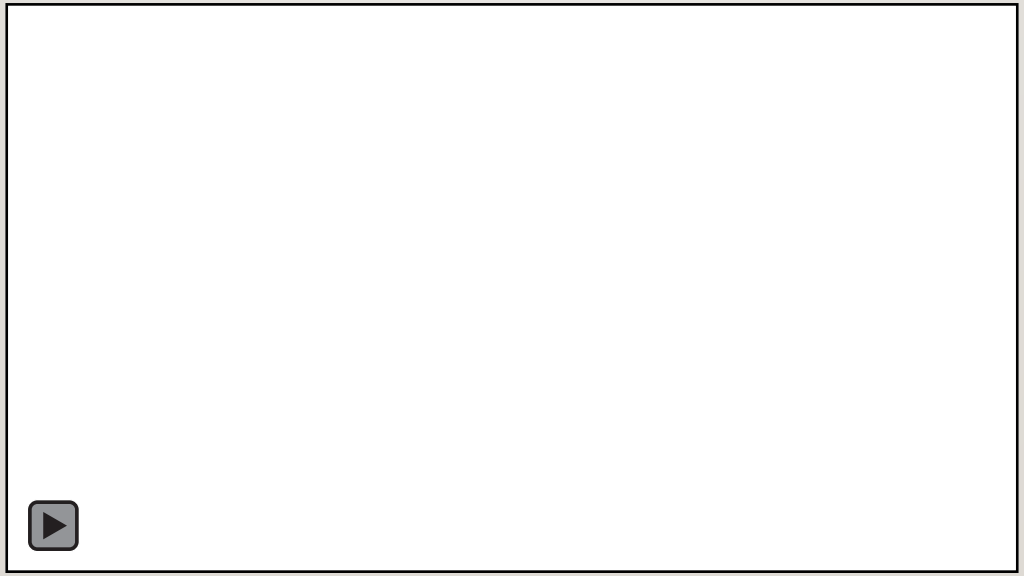
"Mother Monkey's Saddle" – Robert Fathauer & Eve Torrence – Ceramics and Wool Yarn



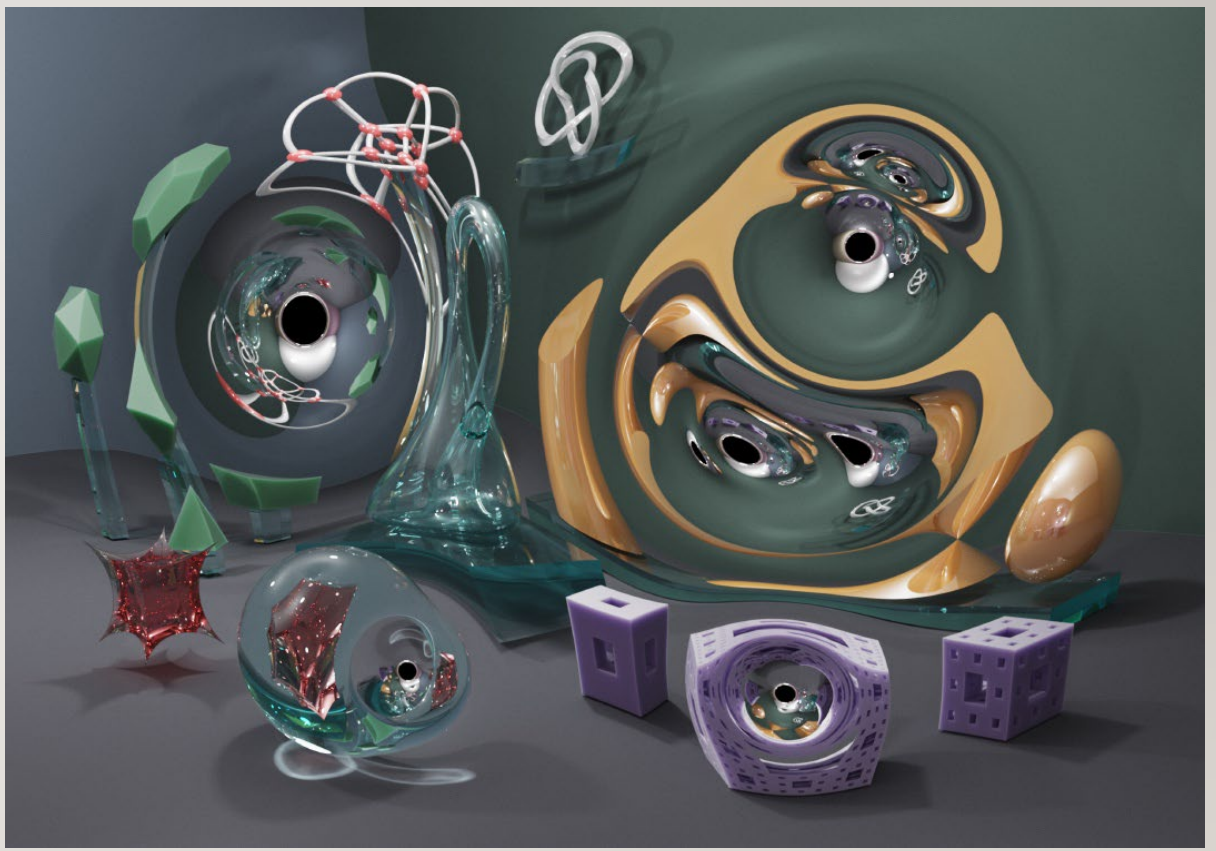
"Holonomy Blocks" – Edmund Harris and Henry Segerman – CNC carved cherry, 3D printed PETG, and machined metal











"The Geometry of Space(time)" – Steve Trettel – General Relativistic Simulation



THANK YOU!

QUESTIONS AND COMMENTS ARE WELCOME

STEPAN PAUL

NORTH CAROLINA STATE UNIVERSITY

SSPAUL2@NCSU.EDU

WWW.STEPANPAUL.COM