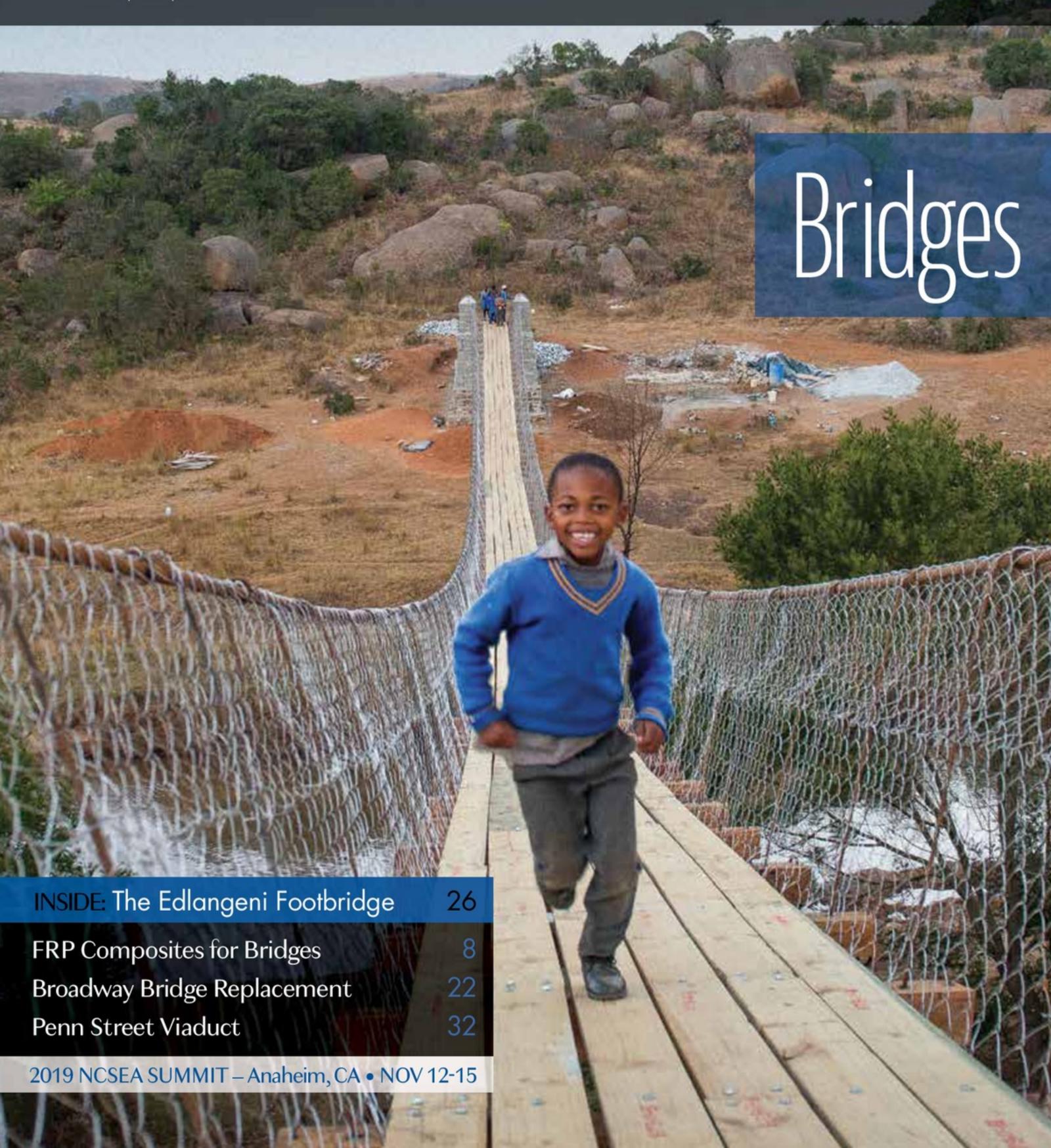
STRUCTURE

NCSEA | CASE | SEI

OCTOBER 2019



A Steel Joist Is A Beautiful Thing. Why Not Treat It Right?

"The design of open web steel joists is based on concentric loading. Asymmetrical loading can reduce joist strength."

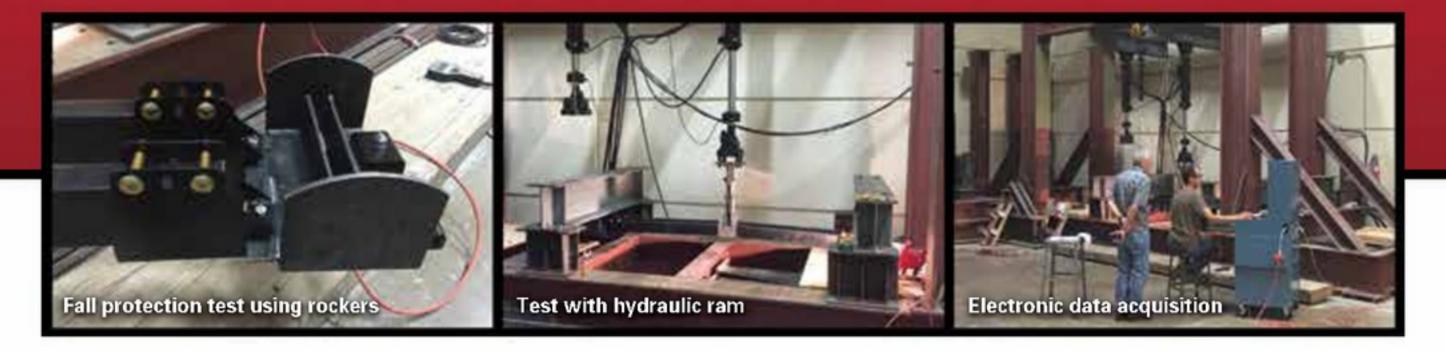
- Steel Joist Institute

Treating a steel joist right requires loading joists in accordance with their design criteria. Loads must be applied to both chord angles without creating a torsional moment. With that fact in mind, **Chicago Clamp Company** has designed and tested their Tube Framing Clamp System.

Load applied through the center line of the top chord



- The clamp's strength and stiffness transfer the load vertically to the center of the joist's top chord in download and transfer symmetrically during uplift.
- Testing was performed using rocker end-attachments to avoid reliance on torsional strength of the joist chord.
- Clamping to joists avoids possible detrimental effects of welding to joists that are under stress due to loading.
- Clamping has the economic benefits of reducing labor costs, reducing installation mistakes, and reducing job
 delays (associated with locating and sizing curbs and openings prior to steel joist installation).









Phone: 708.343.8311 ■ Email: info@chicagoclampcompany.com ■ Location: Broadview, IL