**JRSI Foundation—Conference Presentations**

1. **Sueyoshi T, Small SR, Elliot JB\*, Gibbs GE\*, Seale RB\*, Berend ME, Ritter MA.** Mechanical Strength of the Proximal Tibia Based on Bone Density and Resection Level Following Total Knee Arthroplasty. Proceedings to the Orthopaedic Research Society Annual Meeting; Orlando, FL, Mar 5-8, 2016.
2. **Meding JB, Small SR, Oja JW\*, Gehron D\*, Lakstins K\*, Rogge RD, Buckley CA.** Biomechanical Analysis of Cup Deformation in Mobile Bearing THA Acetabular Components. 2015 Hip Society Annual Meeting. Sonoma, CA, Oct. 15-17, 2015.
3. **Berend ME, Small SR, Hensley SE\*, Cook PL\*, Stevens RA\*, Rogge RD, Meding JB.**Characterization of Femoral Component Initial Stability and Cortical Strain in a Reduced Stem Length Design. 2015 Hip Society Annual Meeting. Sonoma, CA, Oct. 15-17, 2015.
4. **Sutterer B\*, Reyes E, Berend ME, Small SR, Rogge RD.** An Investigation of the Relationship between Plantar Weight Distribution and the Condition of Osteoarthritic Knees During Quiet Standing. Proceedings to the Orthopaedic Research Society Annual Meeting; Las Vegas, NV, Mar 28-31, 2015.
5. **Small SR, Hensley SE\*, Cook PL\*, Stevens RA\*, Rogge RD, Berend ME.**The Effect of Stem Length on Strain and Micromotion in the Proximal Femur Following Total Hip Arthroplasty.Proceedings to the Orthopaedic Research Society Annual Meeting; Las Vegas, NV, Mar 28-31, 2015.
6. **Berend ME, Che AW\*, Rogge RD, Small SR, Ritter MA.** Enhancement of the Biomedical Model of Tibial Loading Following Unicomparmental Knee Arthroplasty. 2014 Knee Society Members Meeting. Charlotte, NC, Oct 16-18, 2014.
7. **Farley K\*, Niverson A\*, Rogge RD.** The Effects of Toning Shoes on the Postural Stablity of Women. Proceedings of the American Society of Biomechanics Conference; Omaha, NE, Sept 4-7, 2013.
8. **Rogge RD, Small SR, Archer DB\*, Berend ME, Ritter MA.**Validation of Digital Image Correlation Technique for Strain Measurement in Biomechanical Test Models. Proceedings of the ASME Summer Bioengineering Conference; Sunriver, OR, June 26-29, 2013.
9. **Malinzak RM, Small SR, Rogge RD, Archer DB\*, Oja JW\*, Berend ME.** Digital Image Correlation Analysis of Tibial Loading in Rotating Platform Total Knee Arthroplasty. Proceedings to the Orthopaedic Research Society Annual Meeting; San Antonio, TX, Jan 26-29, 2013. [Abstract](http://www.rose-hulman.edu/media/1063842/ORS-2013.pdf)
10. **Meding JB, Small SR, Jones ME\*, Ritter MA.** A Biomechanical Model of Acetabular Cup Deformation in Metal-on-Metal Designs.Proceedings to the American Academy of Orthopaedic Surgeons; San Francisco, CA, Feb 8-10, 2012. [Abstract](http://www.rose-hulman.edu/media/1063809/AAOS-2012.pdf)
11. **Rogge RD, Tokunaga S\*, Small SR, Berend ME, Ritter MA.** The Influence of Bone Resection Depth on Tibial Loading. Proceedings to the Orthopaedic Research Society Annual Meeting; San Francisco, CA, Feb 4-7, 2012. [Abstract](http://www.rose-hulman.edu/media/1063839/ORS-2012.pdf)
12. **Meding JB, Small SR, Jones ME\*, Ritter MA.** A Biomechanical Model of Acetabular Cup Deformation in Metal-on-Metal and Conventional Metal-Backed Component Designs. Proceedings to the American Association of Hip and Knee Surgeons Annual Meeting; Dallas, TX, Nov 4-6, 2011. [Abstract](http://www.rose-hulman.edu/media/1063800/AAHKS-2011.pdf)
13. **Archer BD\*, Kingman AL\*, Hughes KR\*, Small SR, Rogge RD, Berend ME, Ritter MA.**Biomechanical Assessment of Tibial Component Slope in Unicompartmental Knee Arthroplasty. Proceedings to the BMES Annual Meeting; Hartford, CT. Oct 12-15,2011. [Abstract](http://www.rose-hulman.edu/media/1063818/BMES-2011.pdf)
14. **Meding JB, Small SR, Jones ME\*, Ritter MA.** A Biomechanical Model of Acetabular Cup Deformation in Metal-on-Metal and Conventional Metal-Backed Component Designs. 2011 Summer Meeting of the Hip Society; New Albany, OH, Sept 22-24, 2011. [Abstract](http://www.rose-hulman.edu/media/1063836/Hip-Society-2011.pdf)
15. **Jones ME\*, Small SR, Meding JB, Toohey KS.** A Biomechanical Analysis of Implant-Induced Cup Deformation in Acetabular Cup Designs. Proceedings to the BMES Annual Meeting; Austin, TX, Oct 6-9, 2010. [Abstract](http://www.rose-hulman.edu/media/1063833/BMES_2010_Jon.pdf)
16. **Berend ME, Small SR, Howard LA\*, Tunc D\*, Buckley CA, Ritter MA.** Acetabular Cup Design and Orientation Affect Periacetabular Loading Distribution. Proceedings to the BMES Annual Meeting; Austin, TX, Oct 6-9, 2010. [Abstract](http://www.rose-hulman.edu/media/1063830/BMES_2010_How.pdf)
17. **Tokunaga S\*, Small SR, Rogge RD, Berend ME, Ritter MA.** Factors Influencing Tibial Loading Following Total Knee Arthroplasty: A Finite Element Study. Proceedings to the BMES Annual Meeting; Austin, TX, Oct 6-9, 2010.   [Abstract](http://www.rose-hulman.edu/media/1063815/BMES-2010_Toku.pdf)
18. **Berend ME, Small SR, Howard LA\*, Rogge RD, Buckley CA, Ritter MA.** High Initial Stability in Porous Titanium Acetabular Cups: A Biomechanical Study. Proceedings to the BMES Annual Meeting; Austin, TX, Oct 6-9, 2010. [Abstract](http://www.rose-hulman.edu/media/1063827/BMES_2010_Ber.pdf)
19. **Small SR, Berend ME, Ritter MA, Buckley CA, Rogge RD.** Metal Backing Significantly Decreases Tibial Strains in Unicompartmental Knee Arthroplasty. Proceedings to the American Association of Hip and Knee Surgeons Annual Meeting; Dallas, TX, Nov 6-8, 2009. [Abstract](http://www.rose-hulman.edu/media/1063803/AAHKS_2009.pdf)
20. **\*Volitich M, \*Younger SM, Small SR, Buckley CA, Rogge RD, Berend ME.** Strain in the Medial Tibia with Fixed All-Polyethylene Bearings in Unicompartmental Knee Arthroplasty. Proceedings to the BMES Annual Meeting; Pittsburg, PA, Oct 7-10, 2009. [Abstract](http://www.rose-hulman.edu/media/1063824/BMES_2009_2.pdf)
21. **\*Volitich M, Small SR, Buckley CA, Rogge RD, Berend ME.** Comparison of Photoelastic and Strain Gage Evaluation Techniques in an Orthopaedic Model. Proceedings to the Biomedical Engineering Society Annual Meeting; Pittsburg, PA, Oct 7-10, 2009.   [Abstract](http://www.rose-hulman.edu/media/1063821/BMES_2009.pdf)
22. **Berend ME, Buckley CA, Ritter MA, Small SR.** Understanding Aseptic Loosening in Knee Arthroplasty. Proceedings to The Association of Bone and Joint Surgeons 61st Annual Meeting; Maui, May 2009. [Abstract](http://www.rose-hulman.edu/media/1063812/ABJS_2009.pdf)
23. **Berend ME, Small SR, Meneghini RM, Ritter MA, Buckley CA, \*Dierking WK, \*Merk JC.** Factors Affecting Loading in TKA:What is Causing Implant Failure and Loosening? Proceedings to the AAOS 75th Annual Meeting; San Francisco, California,March 5-9, 2008.    [White Paper](http://www.rose-hulman.edu/media/1063806/AAOS-2008_Whitepaper.pdf)
24. **\*Merk JC, \*Dierking WK, Buckley CA, Berend ME.** A Photoelastic Study of Strains in the Proximal Tibia Following Total Knee Arthroplasty. Proceedings to the Biomedical Engineering Society Annual Meeting, Chicago, Illinois, October 2006.

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